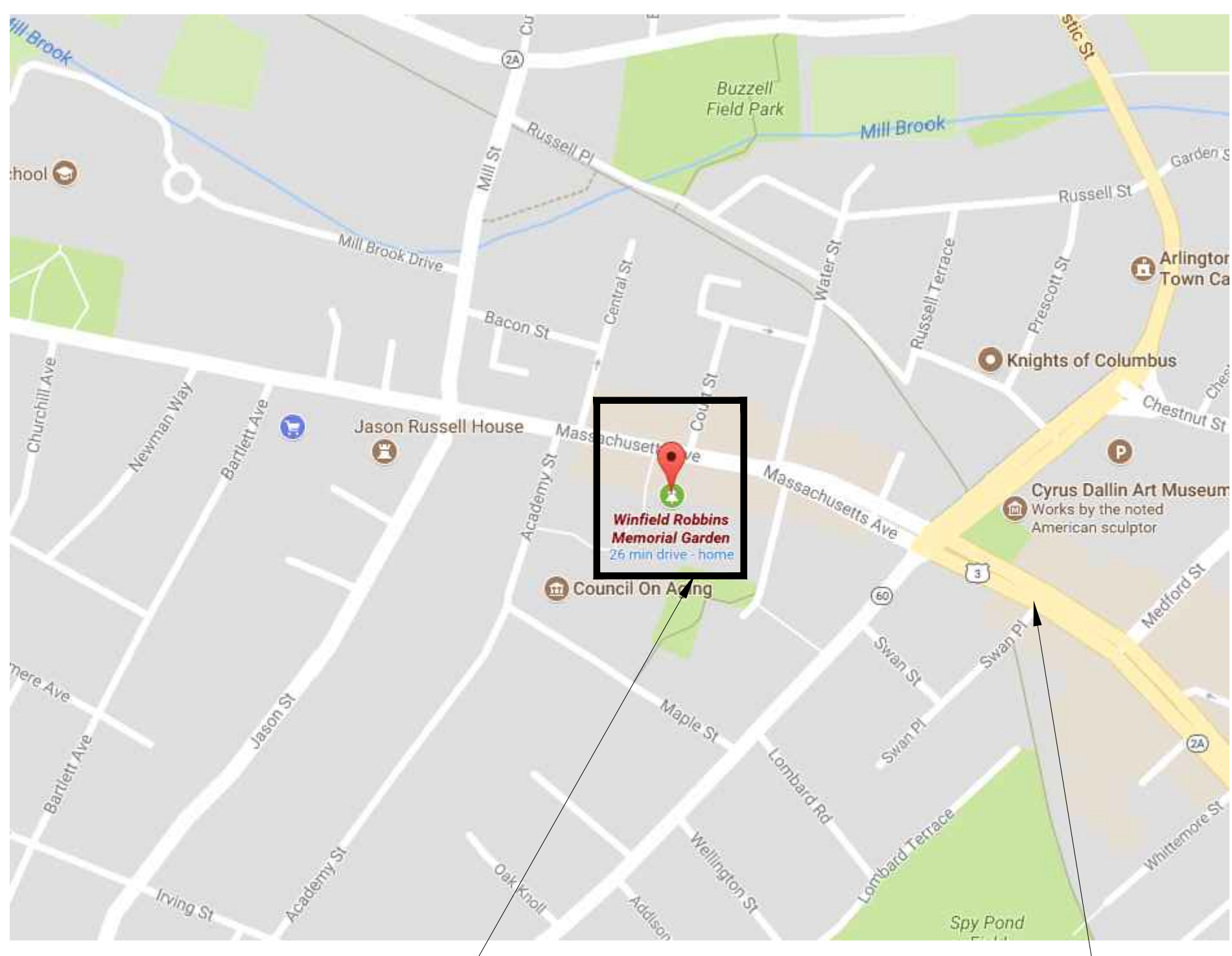


SITE PLAN
N.T.S

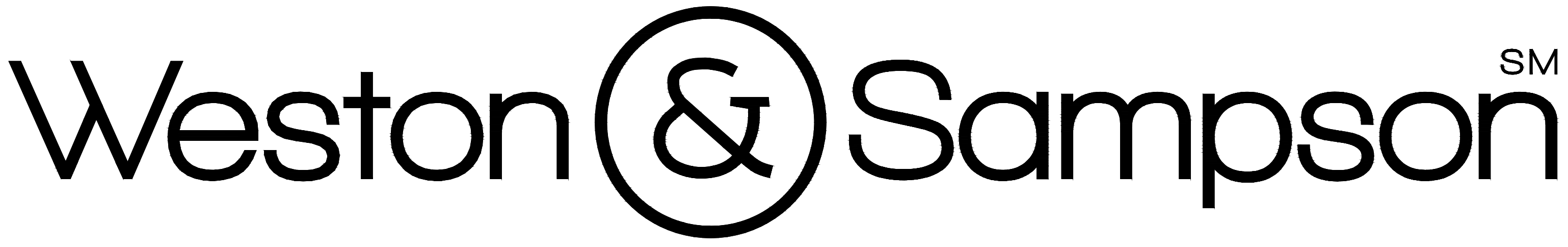
Arlington Menotomy Fountain Rehabilitation



LOCATION OF SITE
LOCATION PLAN
N.T.S

Winfield Robbins Memorial Garden
700 Massachusetts,
Arlington, MA 02476


FOUNTAIN REHABILITATION CONSTRUCTION DOCUMENTS 03/02/18



85 DEVONSHIRE STREET, BOSTON, MA 02109
Tel. (617)-412-4480 (800)-SAMPSON
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LIST OF DRAWINGS	
NOTES	GENERAL NOTES
L1.00	SITE PREPARATION AND DEMOLITION PLAN
L2.00	BRICK WALKWAY LAYOUT AND MATERIALS PLAN (INCLUDES ALT #1)
L3.00	CONSTRUCTION DETAILS
LA1	SITE PREPARATION AND DEMOLITION PLAN
LA2	PLANTING PLAN (INCLUDES ALT #1)
LA3	PLANTING SCHEDULE
LA4	SITE PREPARATION AND PLANTING DETAILS
WF-D-1.0	FOUNTAIN DEMOLITION
WF-D-1.1	BASIN AND MECHANICAL DEMOLITION
WF-D-1.2	SPILLWAY DEMOLITION
WF-1.0	LOWER BASIN RENOVATION
WF-1.1	LOWER BASIN DETAILS
WF-2.0	MIDDLE AND UPPER BASIN REPAIRS
WF-2.1	BASIN COVER; ALT #2
WF-3.0	FILTRATION AND MECHANICAL SYSTEM
WF-3.1	SITE PIPING
WF-3.2	MECHANICAL DETAILS
E1.00	ELECTRICAL LEGEND AND NOTES
E2.00	ELECTRICAL SITE AND BONDING PLAN
E3.00	ELECTRICAL ENLARGED VAULT PLAN
APPENDIX A	HISTORICAL PLANS

Project:
**ARLINGTON MENOTOMY
FOUNTAIN**



**WINFIELD ROBBINS
MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA**

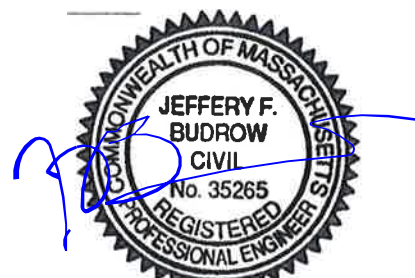
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**CONSTRUCTION
DOCUMENTS**

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Reviewed By: MPM
Checked By: TMS
Approved By: JFB

Drawing Title:

COVER

Sheet Number:

COVER

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DESIGN CODE COMPLIANCE:

NATIONAL ELECTRICAL CODE(NFPA 70).....2011
MASSACHUSETTS BUILDING CODE - 9TH EDITION.....2015
248 CMR 10, MASSACHUSETTS FUEL GAS AND PLUMBING CODE.....2017
527 CMR 12, MASSACHUSETTS ELECTRICAL CODE.....2017

ENGINEER SEAL:

- THESE DRAWINGS HAVE BEEN PREPARED FOR EXCLUSIVE USE FOR THE CLIENT AND ARE NOT INTENDED FOR ANY OTHER PURPOSE. TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS MEET THE REQUIREMENTS SET FORTH BY THE MASSACHUSETTS BUILDING DEPARTMENT
- THE FOUNTAIN THAT IS INCORPORATED INTO THESE DRAWINGS MUST BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE APPROVED DRAWINGS. ALL CHANGES MUST HAVE WRITTEN APPROVAL FROM WESTON & SAMPSON PRIOR TO SUCH CHANGE OR ALTERATION BEING IMPLEMENTED.
- ONLY DRAWINGS FROM WESTON & SAMPSON THAT ARE MARKED "FOR CONSTRUCTION" AND WITH THE DOH APPROVAL NUMBERS AND APPROVAL DATES AFFIXED SHALL BE USED FOR THE FOUNTAIN CONSTRUCTION IMPLEMENTATION.
- THE SIGNIFICANCE HAS BEEN PREVIOUSLY DEFINED IN THE STATE AND/OR NATIONAL REGISTRY OF HISTORIC PLACES. THE INTEGRITY IS DEFINED IN THE U.S. DEPARTMENT OF THE INTERIOR'S SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES AND THE GUIDELINES FOR THE TREATMENT OF CULTURAL LANDSCAPES AS, "THE AUTHENTICITY OF A PROPERTY HISTORIC IDENTITY, EVINCED BY THE SURVIVAL OF PHYSICAL CHARACTERISTICS THAT EXISTED DURING THE PROPERTY'S HISTORY PERIOD, THE SEVEN QUALITIES OF INTEGRITY AS DEFINED BY THE NATIONAL REGISTER PROGRAM ARE LOCATION, SETTING, FEELING, ASSOCIATION, DESIGN, WORKMANSHIP, AND MATERIALS".

GENERAL CONSTRUCTION REQUIREMENTS:

- REFER TO THE FOUNTAIN DRAWINGS FOR FINISHING SURFACING MATERIALS FOR WALLS, FLOOR, AND COPING. FINISH COLORS, AND MATERIALS ARE SPECIFIED IN THESE DRAWINGS. THE INTERIOR SURFACE SHALL BE IDENTICAL TO CORE SAMPLES REMOVED FROM THE EXISTING STRUCTURE. INTERIOR SURFACES SHALL BE APPROVED BY ENGINEER, OWNER AND HISTORICAL SOCIETY. CORE AND SLAB SAMPLES SHALL BE AVAILABLE ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FILLING OF THE FOUNTAIN, BALANCING THE WATER, AND STARTING UP THE EQUIPMENT, UNTIL FORMAL ACCEPTANCE BY OWNER. CONTRACTOR IS RESPONSIBLE FOR THE PROPER WINTERIZATION OF THE FOUNTAIN AFTER ITS FIRST FULL SEASON. CONTRACTOR IS RESPONSIBLE FOR STARTUP FOR ITS FIRST FULL SEASON.
- CONTRACTOR SHALL PROVIDE DETAIL INSTRUCTIONS ON OPERATING THE EQUIPMENT, AND SHALL VIDEO TAPE THE ENTIRE TRAINING SESSION.
- DUE TO THE SPECIALITY NATURE OF THE WORK, CONTRACTOR SHALL MEET THE REQUIREMENTS SET FORTH IN SPECIFICATION SECTION 01 14 00 - SPECIAL PROVISIONS.

DEFINITIONS:

- CONTRACTOR: PERSON OR ENTITY AUTHORIZED TO CONSTRUCT, INSTALL AND OPERATE A FOUTNAIN AND THEIR APPURTENANCES, AND MAINTAIN PROPER LICENSES TO DO SO.
- CRITICAL: THIS WORD DESCRIBES DIMENSIONS THAT SHALL NOT BE SUBJECT TO DEVIATION OR ERRORS FOR ANY REASON. VIOLATION OF A CRITICAL DIMENSION MIGHT SUBJECT THE FOUNTAIN TO A POTENTIAL VARIANCE ACTION OR A PERMANENT WITHHOLDING OF A FUTURE OPERATING CERTIFICATE. WESTON & SAMPSON CONSIDERS ALL DIMENSIONS CONTAINED WITH THE DRAWINGS AS VITAL; HOWEVER, THE WORD CRITICAL IS ADDED TO ATTRACT THE ATTENTION OF THE CONTRACTOR.
- PROVIDE: OBTAIN, PURCHASE, SUPPLY, INSTALL AND WARRANTY COMPLETELY IN ACCORDANCE WITH ALL CODES, RULES, REGULATIONS AND THE REQUIREMENTS OF THE DRAWINGS AND TECHNICAL SPECIFICATIONS.

PIPING INSTALLATION REQUIREMENTS:

- ALL PIPING SHALL BE SCHEDULE 80 PVC. ALL PIPING SHALL BE STAMPED WITH THE MANUFACTURER'S MARKING THAT IT IS APPROVED FOR USE WITH POTABLE WATER (NSF-PW). PLASTIC PIPE EXPOSED TO SUNLIGHT SHALL BE COATED WITH EPOXY PAINT FOR UV PROTECTION.
- THE PIPING DIAGRAMS AND SIZES SHOWN IN THESE DRAWINGS SHALL BE FOLLOWED WITHOUT EXCEPTION UNLESS WRITTEN AUTHORIZATION FROM THIS ENGINEER IS PROVIDED.
- ALL FOUNTAIN PERIMETER PIPING SHALL BE PLACED AS CLOSE TO THE FOUNTAIN BEAM AS POSSIBLE.
- THE PIPING SYSTEMS INDICATED IN THESE DRAWINGS ARE SHOWN IN A DIAGRAMMATIC VIEW ONLY. THE CONTRACTOR SHALL PROVIDE ALL PIPING AND FITTINGS REQUIRED FOR THE COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE AND COMPLY WITH ALL PIPING INSPECTIONS THAT MAY BE REQUIRED BY ENGINEER AND OWNER.
- THE CONTRACTOR SHALL PROVIDE PIPE HANGER DETAILS TO THIS ENGINEER FOR WRITTEN APPROVAL PRIOR TO THE INSTALLATION.
- THE MAIN DRAIN PIPING SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - THE MAIN DRAIN GRAVITY FLOW PIPE SHALL HAVE A SLOPE DOWNWARD TOWARD THE COLLECTOR TANK.
 - AT NO POSITION SHALL THE MAIN DRAIN PIPING CHANGE SLOPES SO AS TO ALLOW AN AIR POCKET OR TRAP TO OCCUR.
 - ANY MODIFICATION TO THIS INSTALLATION PROCEDURE MAY RENDER THE MAIN DRAIN PIPING INOPERATIVE.
- THE STATIC PIPING SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - THE STATIC PIPING SHALL BE INSTALLED SO AS TO ALLOW THE STATIC PIPE TO HAVE A SLOPE DOWNWARD TOWARD THE COLLECTOR TANK OR TO FOUNTAIN.
 - ANY MODIFICATION TO THIS INSTALLATION PROCEDURE MAY RENDER THE STATIC PIPING INOPERATIVE.
- PIPING PRESSURE TESTING SHALL BE COORDINATED BY THE FOUNTAIN CONTRACTOR AND SHALL BE INCLUDED IN HIS COST. THE ENGINEER SHALL BE ONSITE DURING PRESSURE TESTING. ALL PIPING SHALL CONFORM TO ACCEPTED WORKMANSHIP STANDARDS AND SHALL BE TESTED AS FOLLOWS:
 - ALL PIPING MUST BE TESTED BY MEANS OF WATER PRESSURE.
 - GRAVITY PIPING SHALL BE TESTED TO 10 PSI.
 - GRAVITY PIPING SHALL BE DEFINED AS MAIN DRAIN PIPING, GUTTER DRAINAGE PIPING, AUTO FILL PIPING OR SENSING PIPING, OR ANY PIPING WHICH SHALL NOT HAVE FLOW VELOCITIES THAT EXCEED 3 FEET PER SECOND.
 - PRESSURE PIPING SHALL BE TESTED TO 50 PSI.
 - PRESSURE PIPING SHALL BE DEFINED AS PUMP SUCTION PIPING, AND ANY PIPING AFTER THE PUMP DISCHARGE, OR ANY PIPING WHICH WILL HAVE FLOW VELOCITIES EXCEEDING 3 FEET PER SECOND.
- EXTEND ALL PIPING TO ITS SPECIFIC FILTRATION SYSTEM OR COLLECTOR TANK. DO NOT CONNECT THE PIPING TO THE FILTRATION SYSTEM UNTIL THE DECKING IS IN PLACE AND THE PRESSURE-TEST IS COMPLETED, APPROVED, AND REMOVED FROM THE PIPING.

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE
ACCOMP	ASPHALT COATED
	ACORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BC	BITUMINOUS CONCRETE
BIT	BITUMINOUS
BLDG	BUILDING
BM	BENCH MARK
BO	BLOW OFF
BV	BUTTERFLY VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CC	CONCRETE CURB
CI	CAST IRON
CL	CENTERLINE
CL	CEMENT LINED
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CU FT	CUBIC FEET
CY	CUBIC YARD
D	STORM DRAIN
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
DWVG	DRAWING
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EW	EACH WAY
EXIST	EXISTING
FLG	FLANGE
FT	FEET, FOOT
G	NATURAL GAS
GR	GRANITE
GALV	GALVANIZED
HC	HOUSE CONNECTION
GC	GRANITE CURB
HORIZ	HORIZONTAL
HP	HIGH PRESSURE
HYD	FIRE HYDRANT
INV	INVERT
ID	INSIDE DIAMETER
IP	IRON PIPE
LB	POUND
LF	LINEAR FEET
LS	LUMP SUM
MAX	MAXIMUM
MB	MAIL BOX
MECH	MECHANICAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
N	NORTH
NE	NORTH EAST
NW	NORTH WEST
NF	NOT FOUND
NO OR #	NUMBER
OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE
PE	PLAIN END, POLYETHYLENE
PL	PROPERTY LINE
PL	PLATE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY
S	SEWER
SE	SOUTH EAST
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SPEC	SPECIFICATIONS
SQ FT	SQUARE FEET
SS	SEWER SERVICE
STA	STATION
STL	STEEL
SW	SIDEWALK, SOUTH WEST
T	HYDROSTATIC THRUST, TELEPHONE
TBM	TEMPORARY BENCH MARK
TH	THRESHOLD
THK	THICK (NESS)
TYP	TYPICAL
UP	UTILITY POLE
VC	VITRIFIED CLAY
VERT	VERTICAL
W	WATER, WEST
W/	WITH
W/O	WITHOUT

Project:

ARLINGTON MENOTOMY
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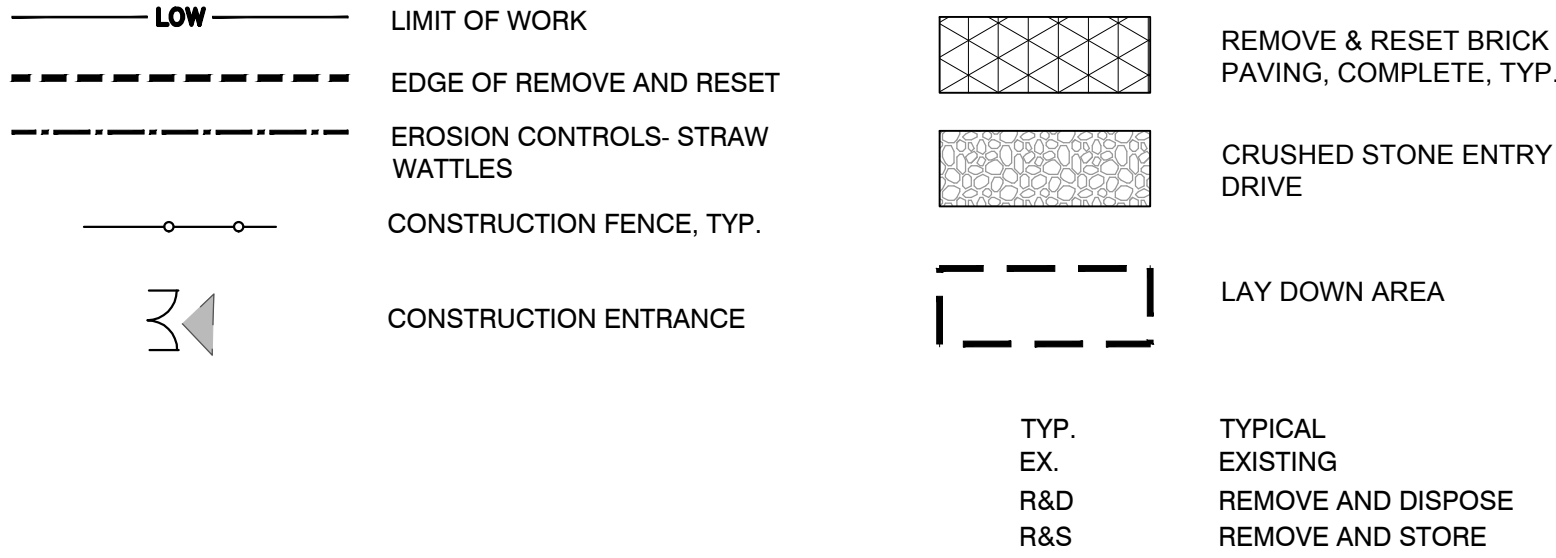
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GENERAL NOTES

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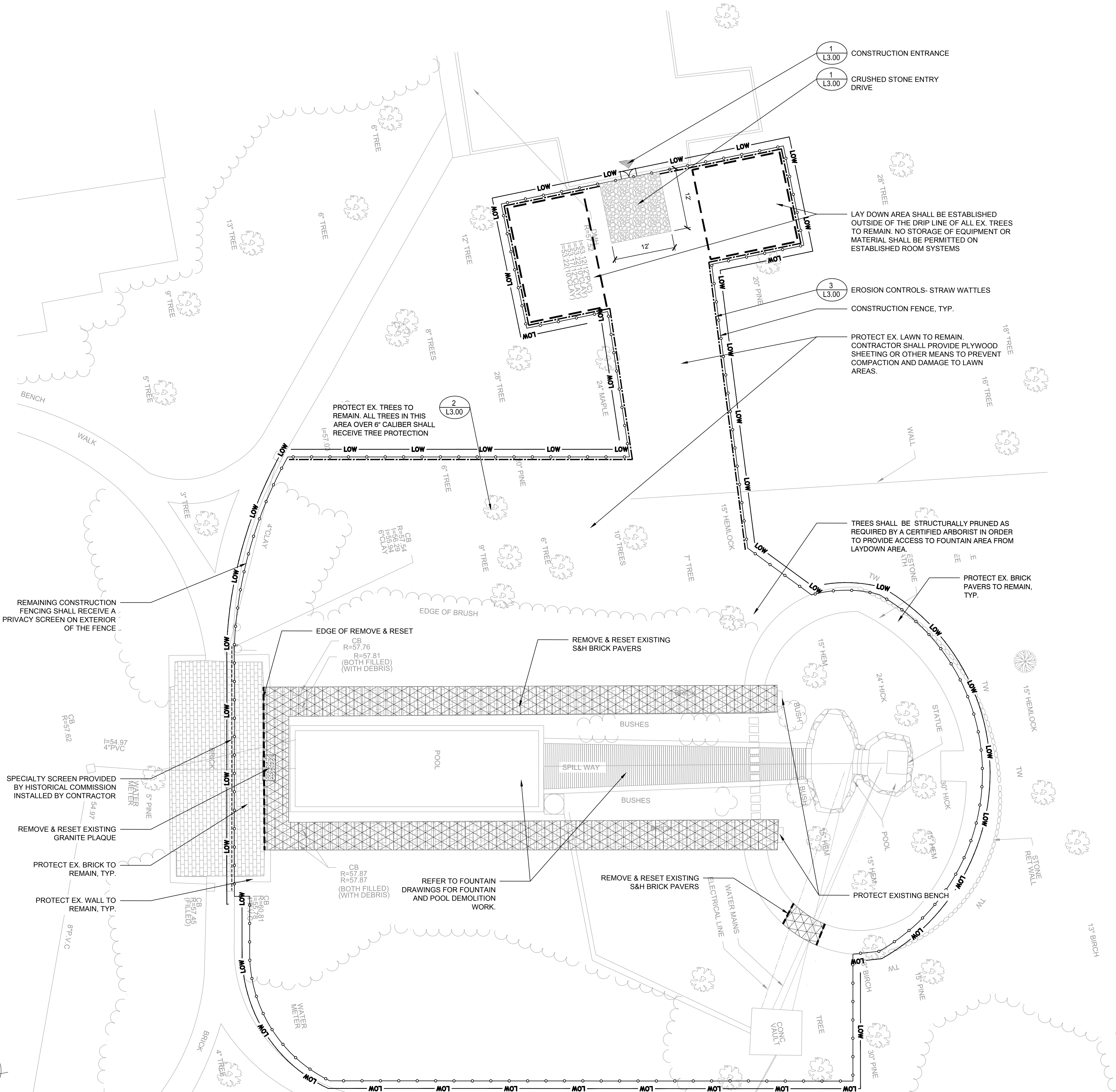


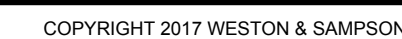
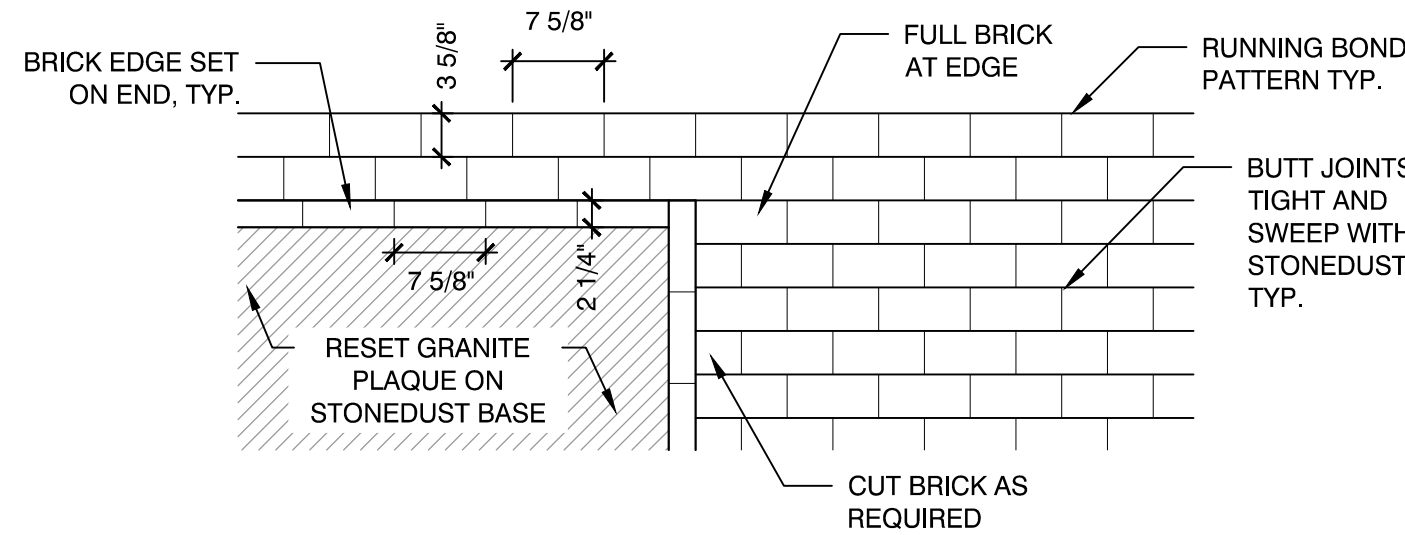
NOTES:

- CONTRACTOR SHALL PROVIDE 6' HIGH CONSTRUCTION FENCE PLACED AT LIMIT OF WORK.
- CONTRACTOR MUST PROVIDE TRUCK WASH OUT AREA ON SITE. LOCATION TO BE APPROVED BY OWNER.
- CONTRACTOR MUST NOTIFY OWNER OF ANY WORK TO BE COMPLETED WITHIN THE RIGHT OF WAY FORTY-EIGHT HOURS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL PROTECT ALL UTILITIES NOT CALLED OUT AS R&D THAT FALL WITHIN LIMIT OF WORK.
- CONTRACTOR SHALL PROTECT AND SHIELD ANY SITE FURNITURE DURING DURATION OF CONSTRUCTION ACTIVITY.
- STOCKPILED SOIL SHALL NOT TO BE COMPACTED OR STORED IN PILES GREATER THAN 4'.
- CONTRACTOR SHALL PROVIDE PLYWOOD OR OTHER MEANS OF LAWN PROTECTION IN AREAS EQUIPMENT WILL TRAVERSE, AND LAYDOWN AND STORAGE AREAS.

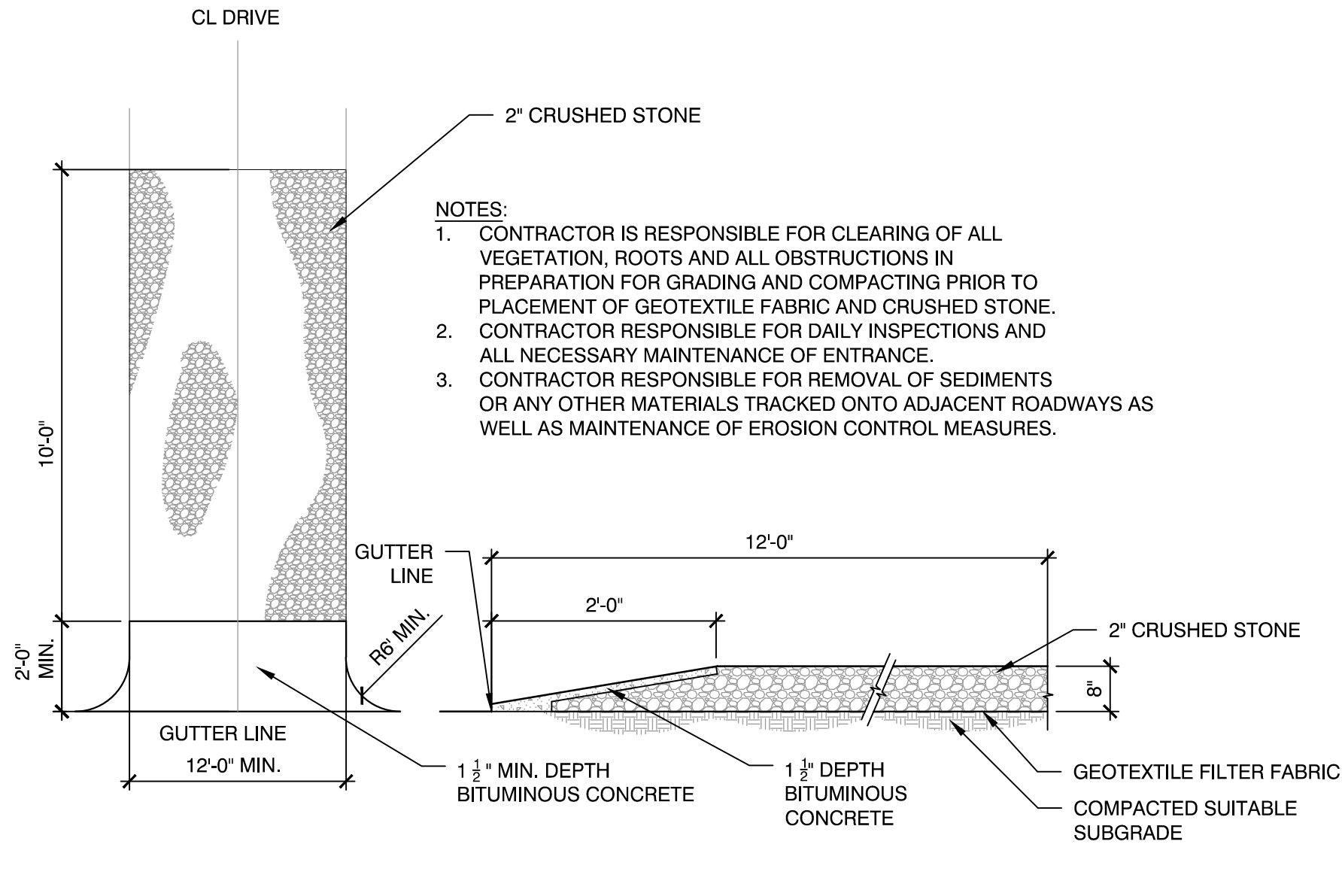
DEMOLITION & SITE PREPARATION NOTES

- THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
- THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
- UNLESS SPECIFICALLY NOTED TO BE SAVED / STOCKPILED (R&S) OR REUSED / RELOCATED (R&R), ALL SITE FEATURES CALLED FOR REMOVAL (R&D/ REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC, TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO COST TO THE OWNER.
- ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN. OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
- STRIP & STOCKPILE EXISTING TOPSOIL FOR LATER REUSE WHERE APPROPRIATE, AND AS NOTED ON PLAN, WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
- TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN. CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIER AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.
- THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL CONSTRUCTION ENTRANCES AND LAYDOWN AREAS SHALL BE RESTORED TO ORIGINAL CONDITIONS.
- LAYDOWN AREA SHALL AVOID TREE ROOT SYSTEM. WHERE LAYDOWN AREAS CANNOT AVOID TREE ROOTS, CONTRACTOR SHALL USE PLYWOOD OR OTHER MEANS TO DISPERSE LOAD AND PROTECT TREE ROOT SYSTEM.

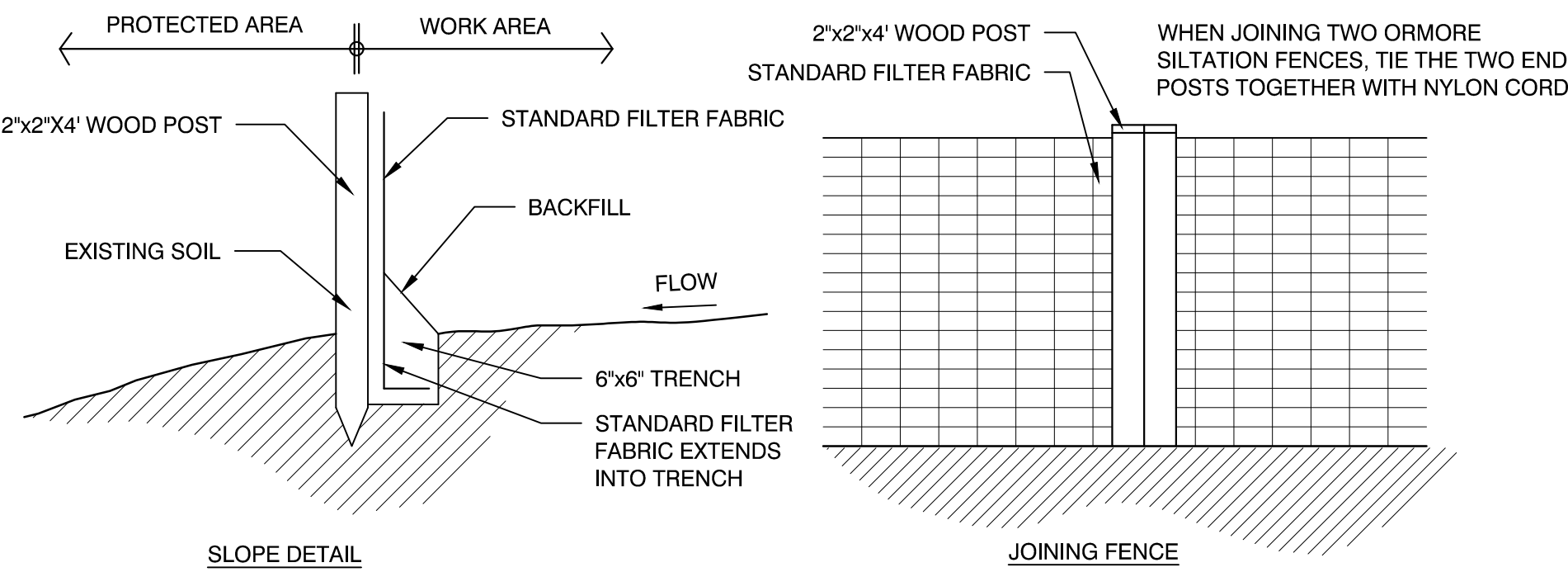
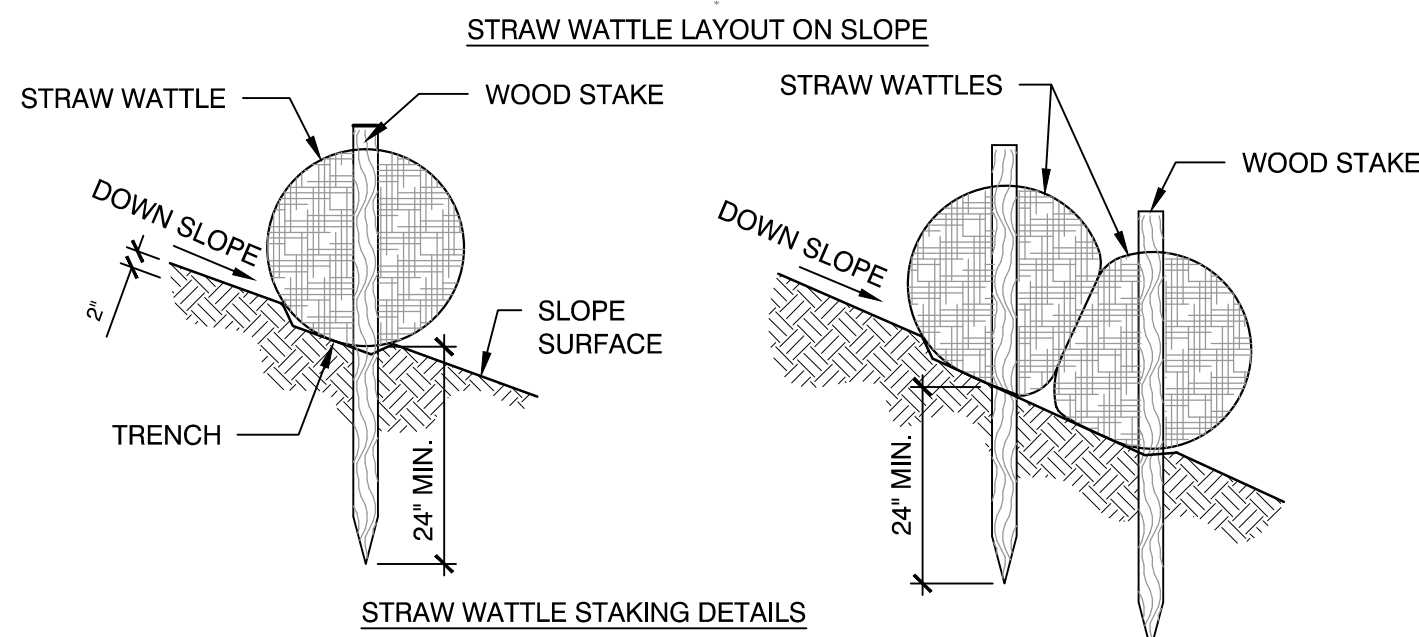
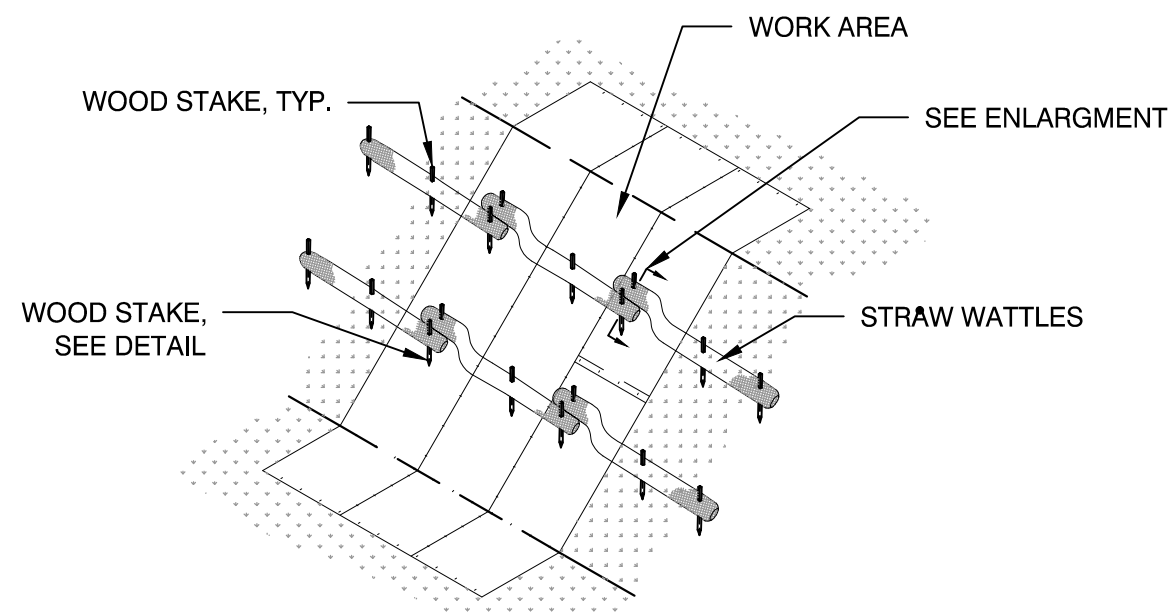




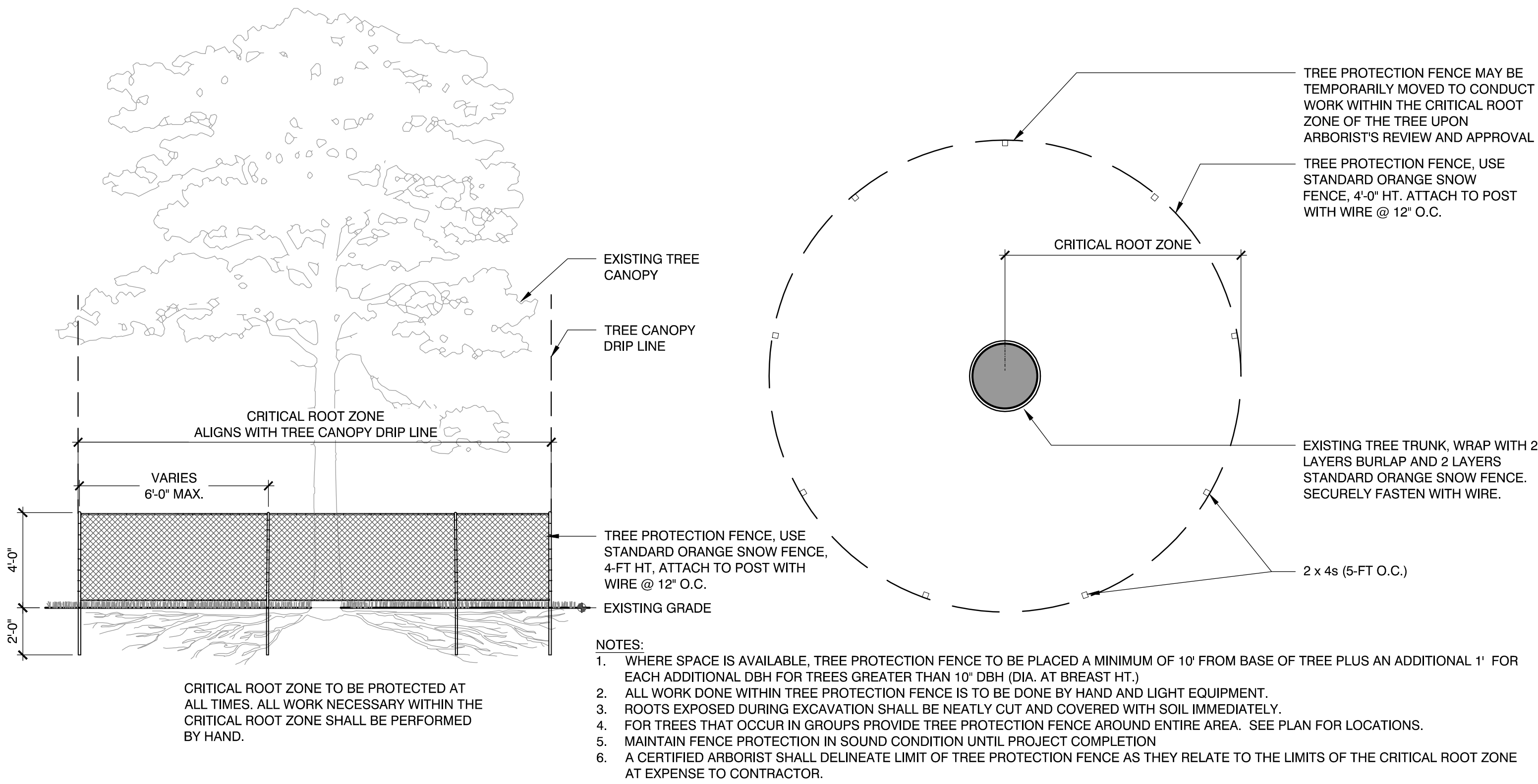
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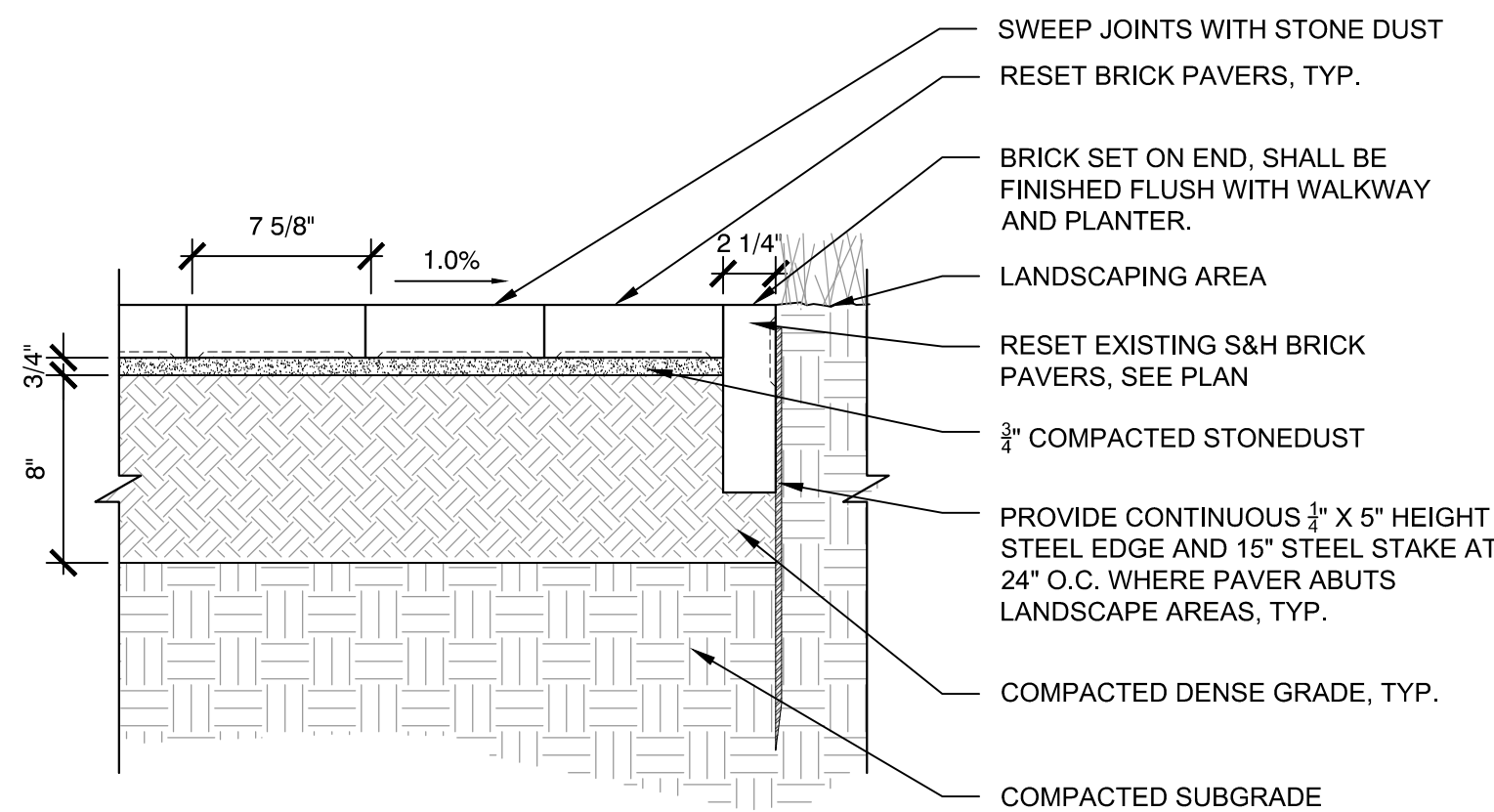
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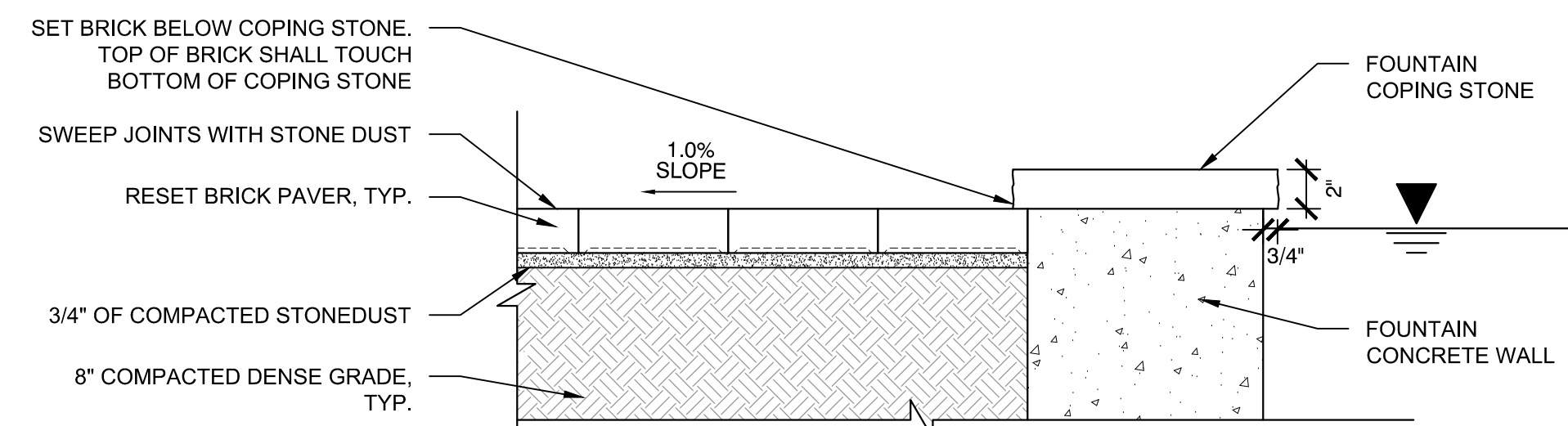
3 EROSION CONTROL- STRAW WATTLE
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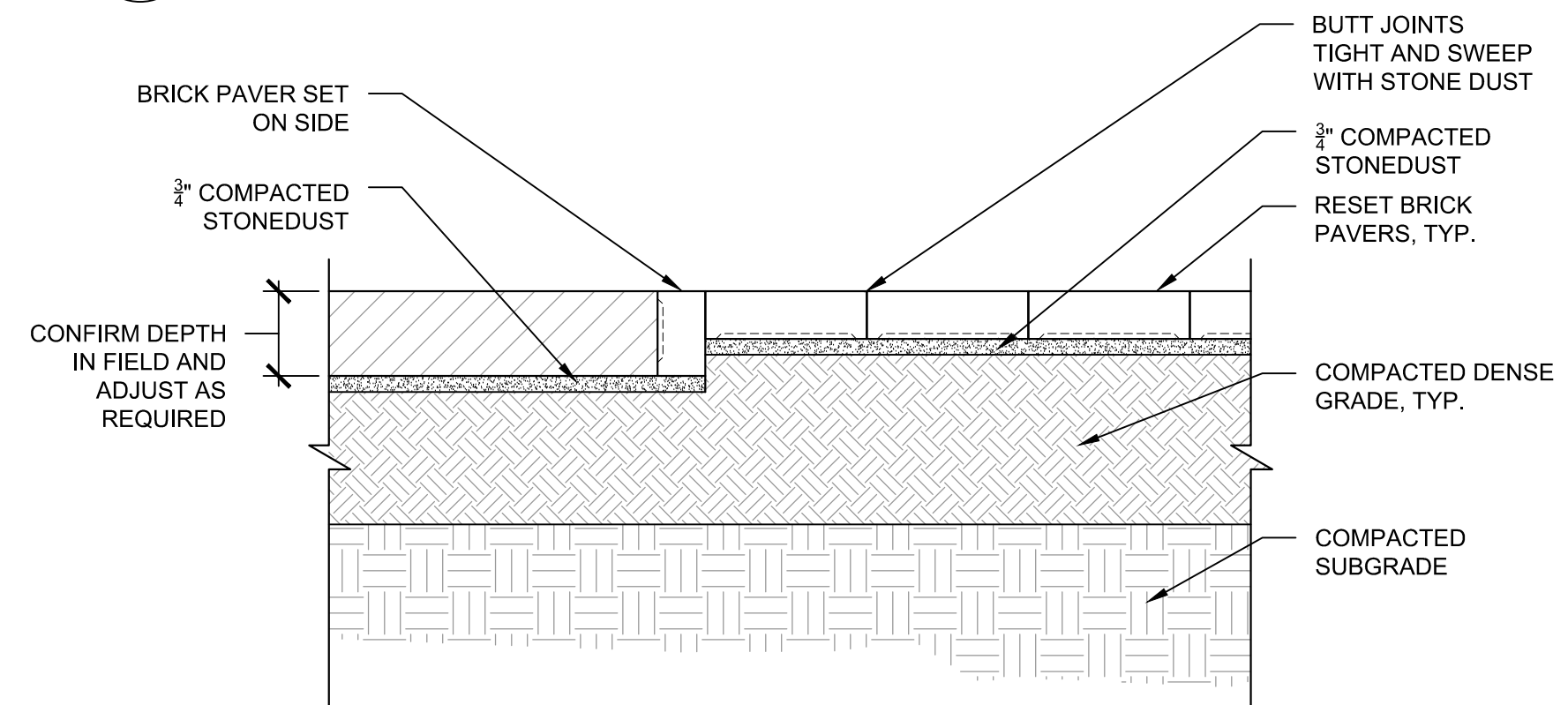
2 TREE PROTECTION
SCALE: NTS



4 S&H BRICK PAVER DETAIL
SCALE: NTS



5 S&H BRICK PAVERS AT LOWER BASIN
SCALE: NTS



7 S&H BRICK PAVERS AT RESET GRANITE PLAQUE
SCALE: NTS

6 LOAM & SEED
SCALE: NTS

Project:
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Drawn By: DYF

Reviewed By: MPM

Checked By: TMS, BMK

Approved By: JFB

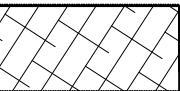
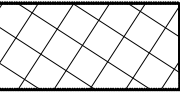
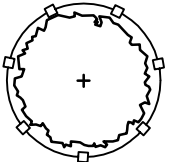
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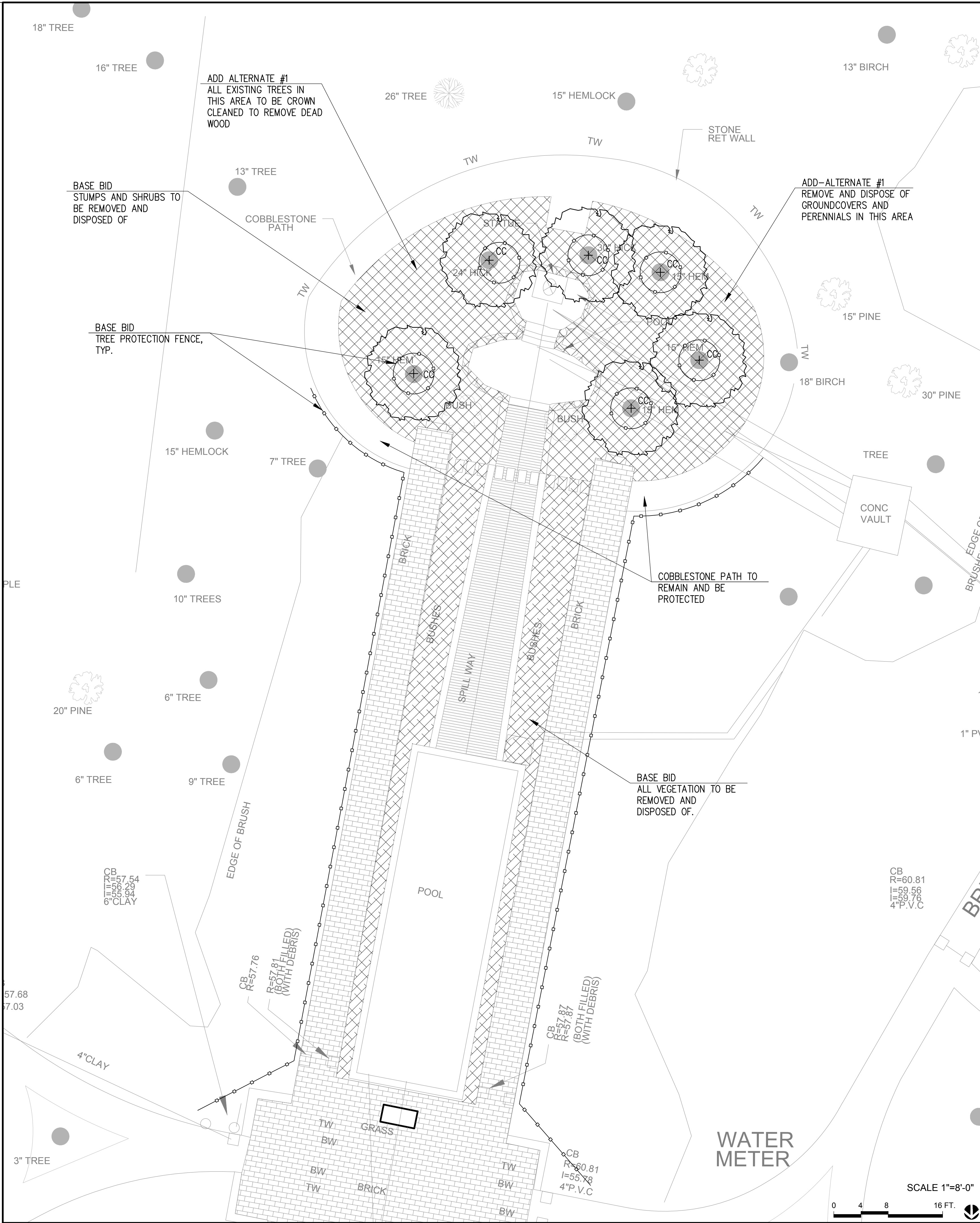
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LEGEND

-  BASE BID - ALL VEGETATION TO BE REMOVED AND DISPOSED OF
-  BASE BID - STUMPS AND SHRUBS TO BE REMOVED AND DISPOSED OF
- ADD-ALTERNATE #1 - GROUNDCOVER AND PERENNIAL MATERIAL TO BE REMOVED AND DISPOSED OF.
-  BASE BID - EXISTING TREE TO REMAIN AND BE PROTECTED, TYP.
- CC ADD ALTERNATE #1 - CROWN CLEANING

SITE PREPARATION AND DEMOLITION NOTES:

1. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES. THE DIG SAFE TELEPHONE NUMBER FOR MASSACHUSETTS IS 811.
2. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY. THE CONTRACTOR SHALL CONTACT THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE LANDSCAPE ARCHITECT PRIOR TO STARTING WORK.
4. ALL REFUSE, DEBRIS, AND MISCELLANEOUS ITEMS TO BE REMOVED, THAT ARE NOT TO BE STOCKPILED FOR LATER USE ON THE PROJECT OR DELIVERED TO THE OWNER, SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH, AND STOCKPILED AS DIRECTED BY THE OWNER OR LEGALLY DISPOSED OF OFF-SITE BY CONTRACTOR.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING TREES AND PLANTS DESIGNATED TO REMAIN FOR THE LENGTH OF THE CONSTRUCTION PERIOD. THE PLACEMENT OF PROTECTION DEVICES ADDITIONAL TO THOSE NOTED SHALL, HOWEVER, BE AT THE CONTRACTOR'S DISCRETION.
7. DAMAGE NO PLANTS TO REMAIN BY BURNING, BY PUMPING OF WATER, BY CUTTING OF LIVE ROOTS OR BRANCHES, OR BY ANY OTHER MEANS. NO PLANTS TO BE SAVED SHALL BE USED FOR CRANE STAYS, GUYS OR OTHER FASTENINGS. VEHICLES SHALL NOT BE PARKED WITHIN THE DRIP LINE OR WHERE DAMAGE MAY RESULT TO TREES TO BE SAVED. CONSTRUCTION MATERIALS SHALL NOT BE STORED BENEATH TREES TO BE SAVED.
8. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS THAT ARE DUE TO CONTRACTOR OPERATIONS AND WHICH ARE OUTSIDE THE LIMIT OF WORK.
9. CONTRACTOR SHALL SECURE ALL PERMITS THAT MAY BE REQUIRED FROM ALL JURISDICTIONS AFFECTED BY THIS WORK.
10. MAINTAIN CONSTRUCTION FENCING AND CONSTRUCTION SIGNAGE FOR DURATION-ANY DAMAGED FENCING IMMEDIATELY REPLACED BY CONTRACTOR.



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Consultants:

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Boston, MA 02108

Revisions:

Rev	Date	Description

Seal:



**CONSTRUCTION
DOCUMENTS**

Date: 03/02/2018

Scale: AS NOTED

Drawn By: TH

Reviewed By: DDD

Checked By: KZ

Approved By: KZ

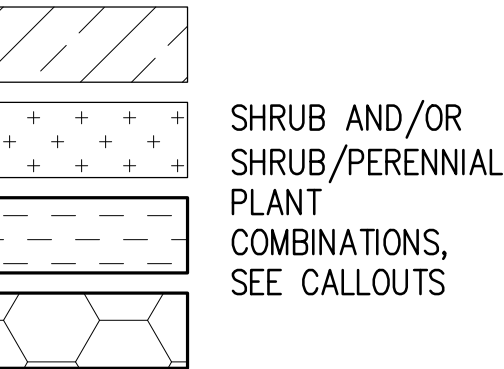
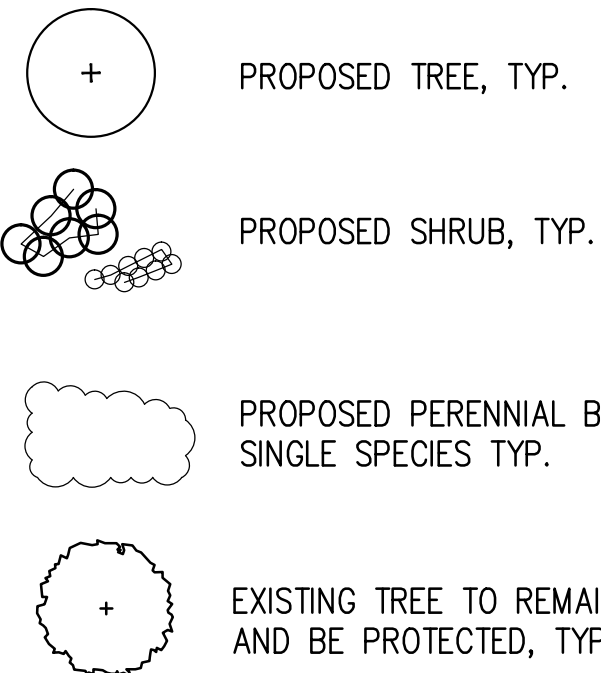
Drawing Title:

**SITE PREPARATION AND
DEMOLITION PLAN**

Sheet Number:

LA1

LEGEND



SEE LA3 FOR PLANT SCHEDULES

PLANTING NOTES:

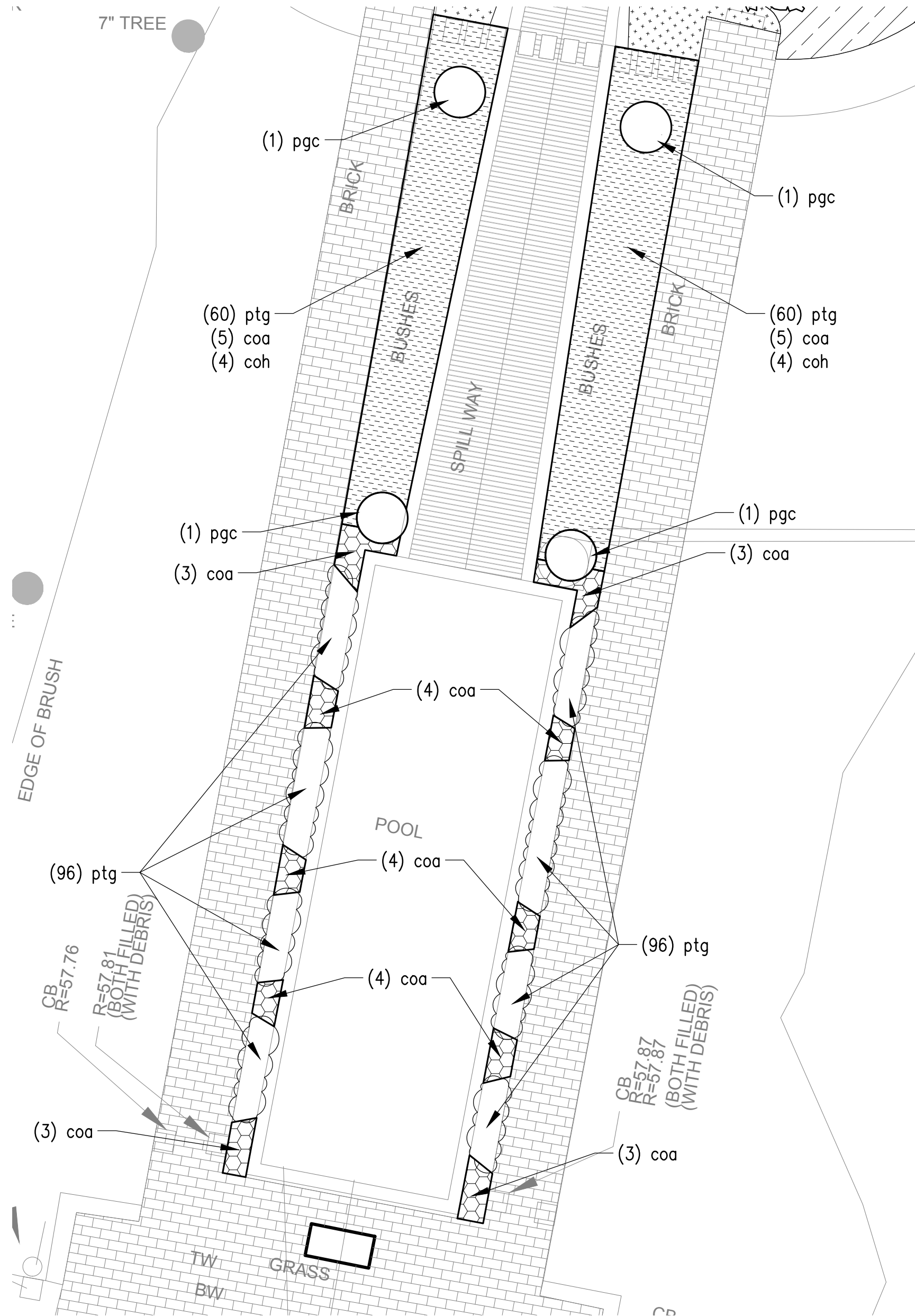
- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT SCHEDULE, THE PLANTING PLAN SHALL GOVERN.
- ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY. ALL NEW PLANTS TO BE BALLED AND BURLAP OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON THE PLANT SCHEDULE.
- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.

- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE LANDSCAPE ARCHITECT AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.
- CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT.
- STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING. LOCATIONS MAY BE ADJUSTED IN FIELD BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. PROVIDE AT LEAST 48 HOURS NOTICE TO LANDSCAPE ARCHITECT.

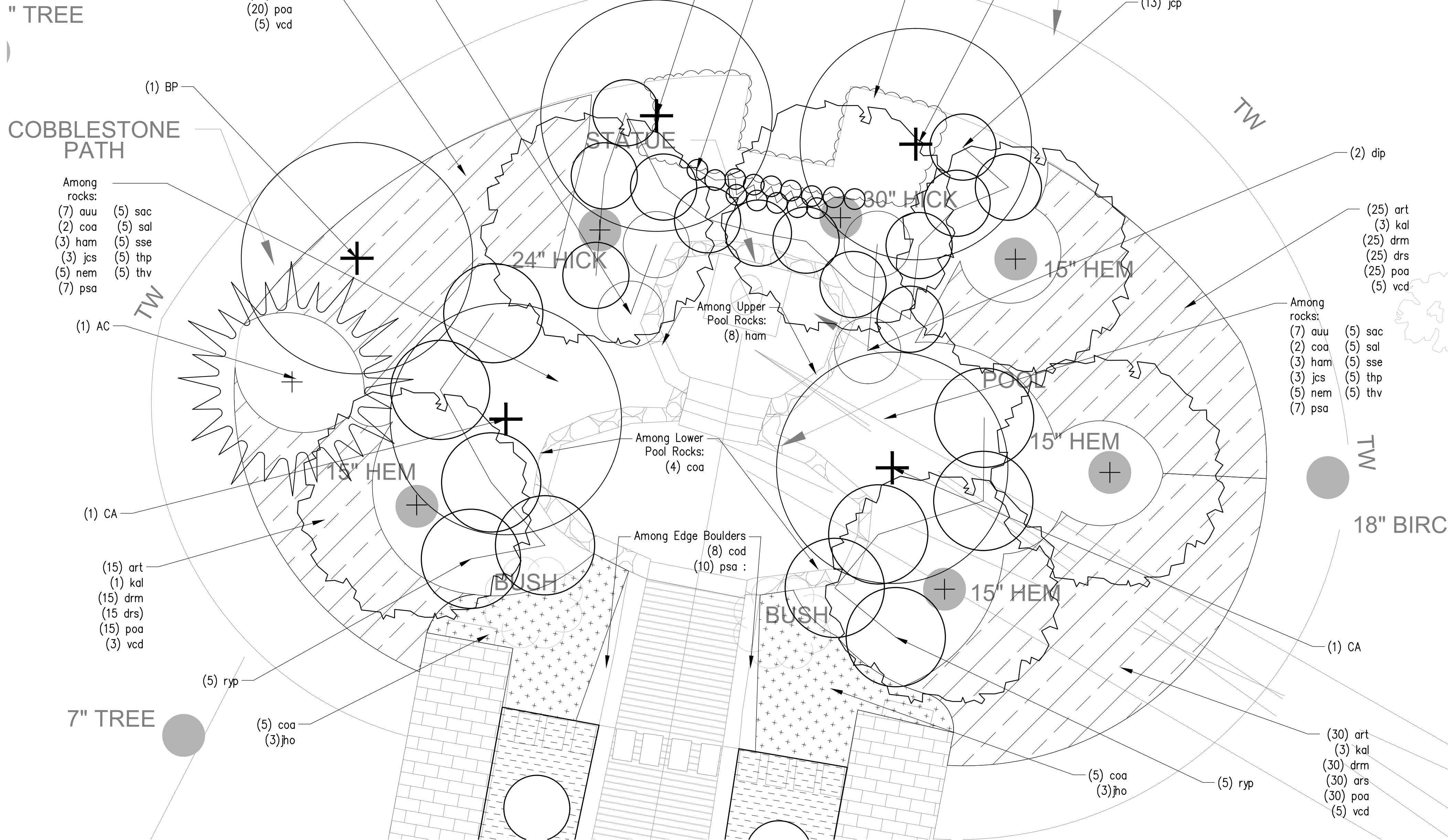
- NEW SHRUBS SHALL BEAR THE SAME RELATIONSHIP TO GRADE AS IT BORE TO PREVIOUS GRADE. TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREES SHALL BE PLANTED BEFORE ACCEPTANCE OF STAKE LOCATIONS.
- ALL EXISTING TREES TO REMAIN SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. PROTECTION TECHNIQUES SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. THE PLACEMENT OF PROTECTION DEVICES ADDITIONAL TO THOSE NOTED SHALL, HOWEVER, BE AT THE CONTRACTOR'S DISCRETION.
- CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.
- CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED

LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO LANDSCAPE ARCHITECT PRIOR TO CONTINUING WORK.

CONTRACTOR SHALL PROVIDE PRUNING BY CERTIFIED ARBORIST. WHEN REQUIRED, PRUNING SHALL BE REVIEWED WITH LANDSCAPE ARCHITECT PRIOR TO WORK.



1 BASE BID PLANTING PLAN
SCALE: 1"=8'-0"



2 ADD-ALTERNATE #1: PLANTING PLAN
SCALE: 1"=4'-0"

Consultants:

kzla

Kyle Zick Landscape Architecture, Inc.
36 Bromfield Street Suite 202
Tel 617 451-1018
Boston, MA 02108

Revisions:

Rev	Date	Description

Seal:



CONSTRUCTION DOCUMENTS

Date: 03/02/2018

Scale: AS NOTED

Drawn By: TH

Reviewed By: DDD

Checked By: KZ

Approved By: KZ

Drawing Title:

PLANTING PLAN

Sheet Number:

LA2

PLANT SCHEDULE - BASE BID

3
LA4

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
SHRUBS						
coa	34	COTONEASTER ADPRESSUS	CREeping COTONEASTER	2 GAL.	36" O.C.	
coh	8	COTONEASTER HORIZONTALIS	ROCK COTONEASTER	2 GAL.	48" O.C.	
pgc	4	PICEA GLAUCA 'CONICA'	DWARF WHITE SPRUCE	4-4.5' B&B	AS SHOWN	

4
LA4

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
PERENNIALS/BULBS						
ptg	312	PACHYSANDRA TERMINALIS 'GREEN SHEEN'	GREEN SHEEN JAPANESE SPURGE	2" POT	10" O.C.	

** ALL NEW PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON PLANT SCHEDULE.

PLANT SCHEDULE - ADD ALTERNATE #1

2
LA4

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
DECIDUOUS TREE						
AC	1	ABIES CONCOLOR	CONCOLOR FIR	8' B&B		
BP	1	BETULA PAPHYRIFERA	PAPER BIRCH	5-6' B&B		SPECIMEN CLUMP FORM
CA	2	CORNUS 'AURORA'	AURORA HYBRID DOGWOOD	2" CAL. B&B		MATCHED; SELECT FOR SPREADING BRANCH FORM
JV	2	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	5' B&B		

3
LA4

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
SHRUBS						
auu	28	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	1 GAL.	15" O.C.	
coa	18	COTONEASTER ADPRESSUS	CREeping COTONEASTER	2 GAL.	3' O.C.	
cod	8	COTONEASTER DAMMERI	BEARBERRY COTONEASTER	2 GAL.	3' O.C.	
djp	4	DIRCA PALUSTRIS	EASTERN LEATHERWOOD	3 GAL.	4' O.C.	
kal	9	KALMIA LATIFOLIA	MOUNTAIN LAUREL	5 GAL.	8' O.C.	LIGHT PINK AND WHITE VARIETIES
jcp	13	JUNIPERUS CHINENSIS PFITZERIANA	PFITZER JUNIPER	3 GAL.	4' O.C.	
jcs	6	JUNIPERUS CHINENSIS SARGENTII	SARGENT JUNIPER	2 GAL.	4' O.C.	
jho	6	JUNIPERUS HORIZONTALIS	CREeping JUNIPER	3 GAL.	4' O.C.	
ryp	10	RHODODENDRON YEDONESE VAR. POUKHANENSE	KOREAN AZALEA	3 GAL.	6' O.C.	
vcd	18	VACCINIUM CORYMBOSOM 'DRAPER'	DRAPER HIGHBUSH BLUEBERRY	3 GAL.	3' O.C.	

4
LA4

SYMBOL	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	COMMENTS
PERENNIALS/BULBS						
art	90	ARISAEMA TRIPHYLLUM	JACK-IN-THE-PULPIT	1 QT.	12" O.C.	
drm	90	DRYOPTERIS MARGINALIS	LEATHER WOODFERN	1 QT.	12" O.C.	
drs	90	DRYOPTERIS SPINULOSA	TOOTHED WOODFERN	1 QT.	12" O.C.	
ham	14	HEMEROCALLIS 'AURANTIACA MAJOR'	JAPANESE DAYLILY	1 GAL.	24" O.C.	
nem	10	NEPETA MUSSINII	CATMINT	2 QT.	18" O.C.	
ptg	125	PACHYSANDRA TERMINALIS 'GREEN SHEEN'	GREEN SHEEN JAPANESE SPURGE	FLATS	10" O.C.	
poa	90	POLYSTICHUM ACROSTICHOIDES	CHRISTMAS FERN	1 QT.	12" O.C.	
psa	24	PHLOX SUBULATA ALBA	WHITE CREEPING PHLOX	1 QT.	12" O.C.	
sac	10	SEDUM ACRE	GOLDMOSS	1 QT.	12" O.C.	
sal	10	SEDUM ALBUM	WHITE STONECROP	1 QT.	12" O.C.	
sse	10	SEDUM SEXANGULARE	HEXAGON STONECROP	1 QT.	12" O.C.	
thp	10	THYMUS PSEUDOLANUGINOSUS	WHITE THYME	4" POT	6" O.C.	
thv	10	THYMUS VULGARIS	WOOLLY THYME	4" POT	6" O.C.	

** ALL NEW PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE NOTED ON PLANT SCHEDULE.

Project:
ARLINGTON MENOTOMY FOUNTAIN



WINFIELD ROBBINS MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA



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Consultants:


kzla

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Boston, MA 02108

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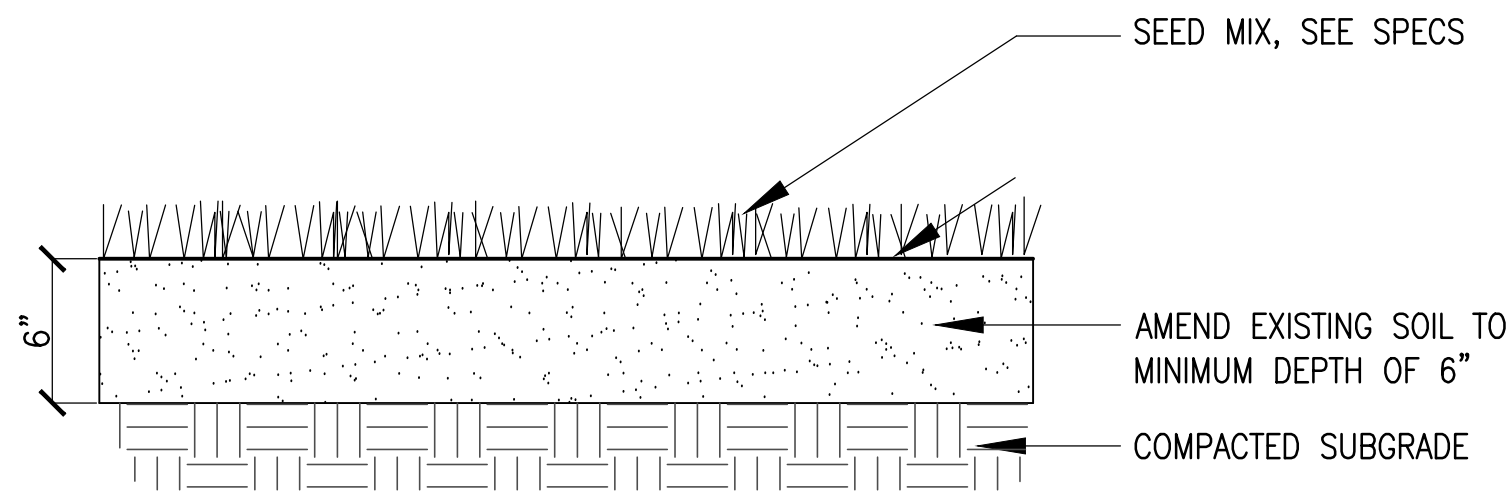
Approved By: KZ

Drawing Title:

PLANTING SCHEDULE

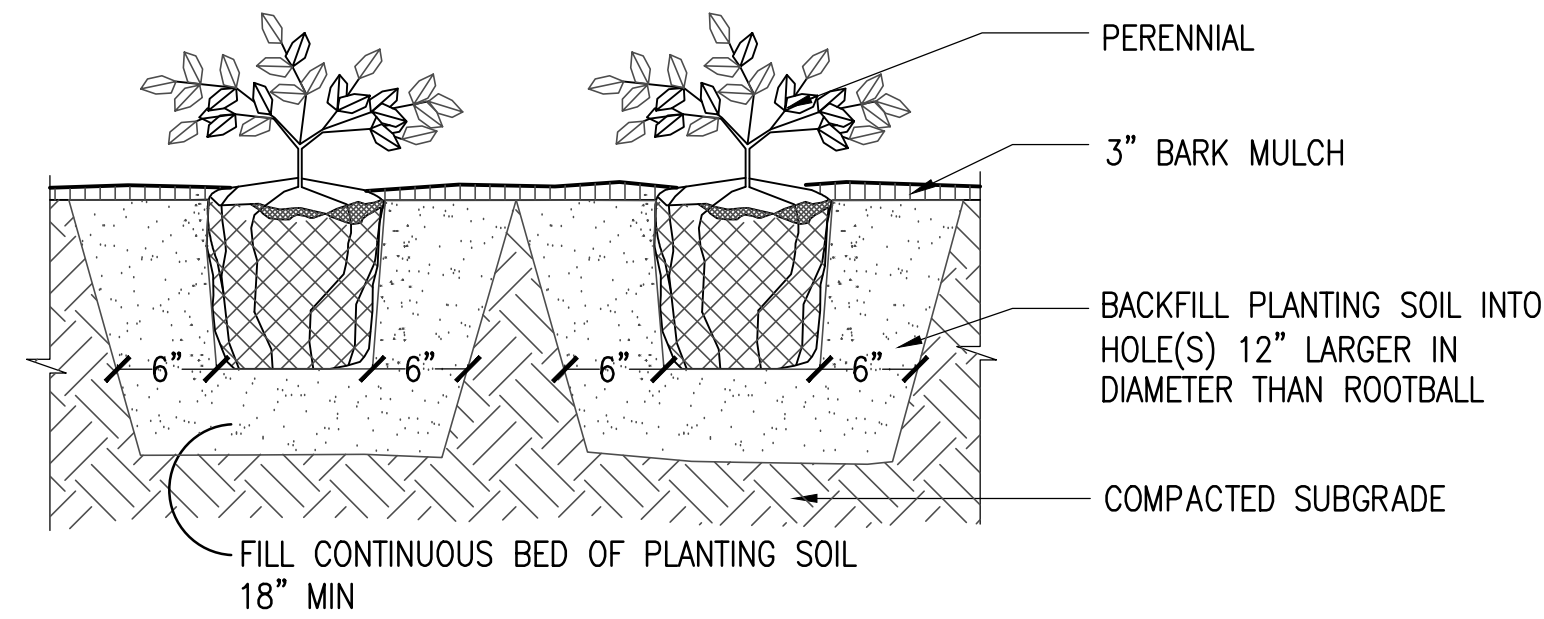
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LA3



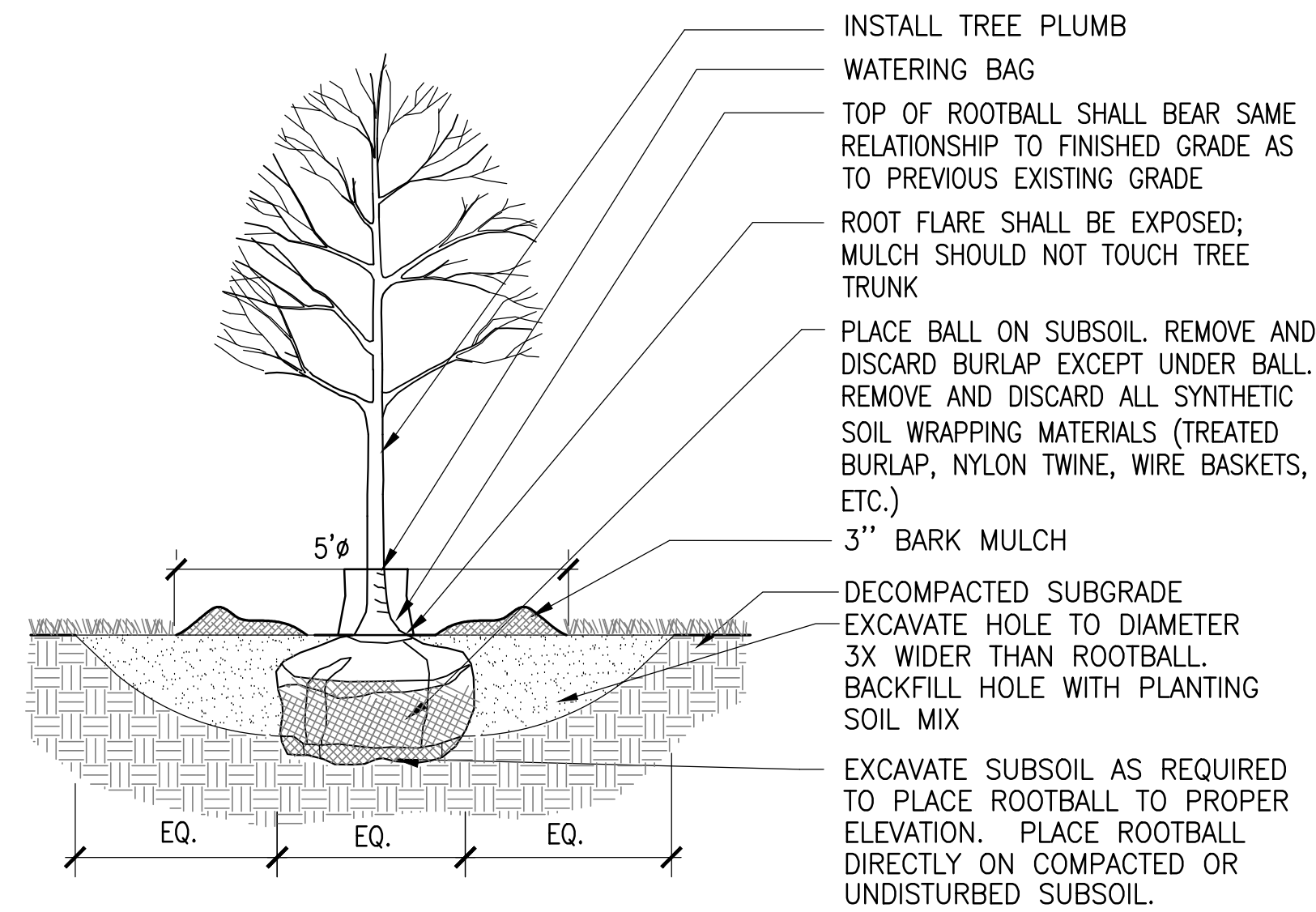
1 SEEDING

SCALE: N.T.S.



4 PERENNIAL PLANTING

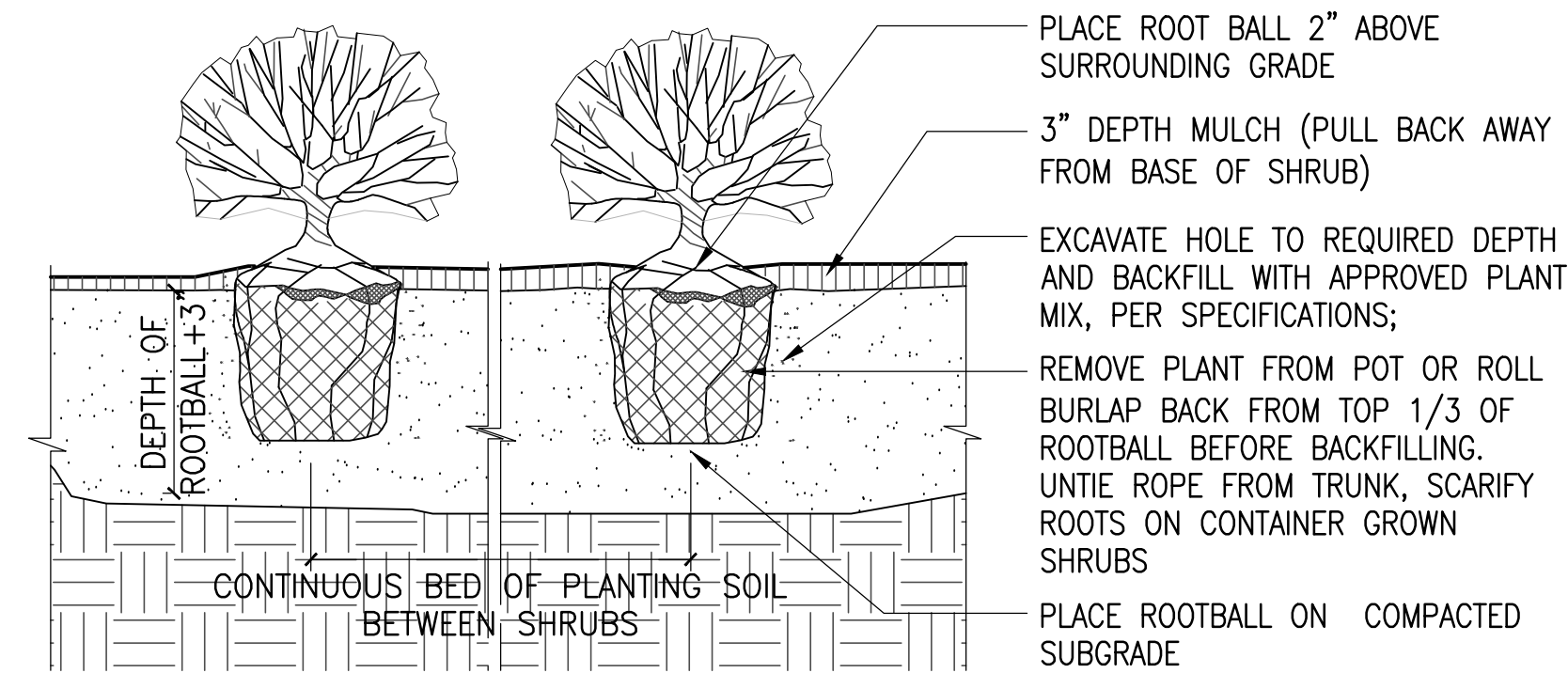
SCALE: 1-1/2"=1'-0"



- NOTES
- IF CONTAINER GROWN SCARIFY SOIL AND ROOTS TO REMOVE CIRCLING ROOTS

2 DECIDUOUS TREE PLANTING

SCALE: N.T.S.

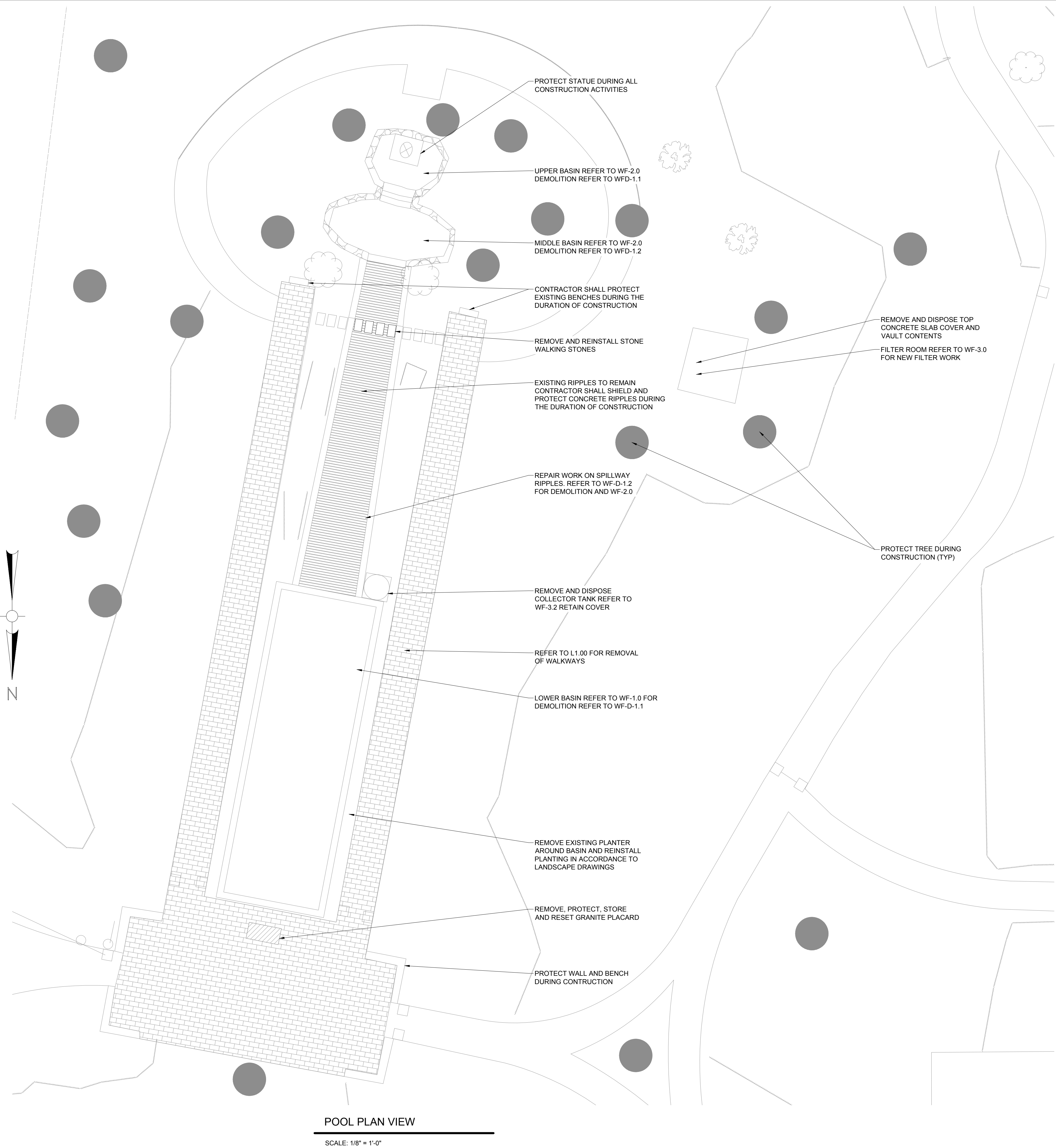


3 SHRUB PLANTING

SCALE: 1-1/2"=1'-0"

Rev	Date	Description





POOL PLAN VIEW

SCALE: 1/8" = 1'-0"

NOTES:

1. CONTRACTOR SHALL PROTECT ALL TREES IN THE LIMIT OF WORK OR TRENCHING THAT COULD COME INTO CONTACT WITH EXCAVATIONS OR HEAVY EQUIPMENT.
2. CONTRACTOR SHALL SUBMIT TO THE ENGINEER A PLAN AND PROCEDURE FOR DEMOLITION.
3. CONTRACTOR SHALL REMOVE ALL DEBRIS AND DEMOLISHED MATERIALS FROM THE SITE. CONTRACTOR SHALL PROTECT ALL EXISTING WALKWAYS AND CHOOSE A ROUTE THAT WILL PROVIDE THE LEAST DISTURBANCE TO THE PARK.
4. CONTRACTOR SHALL CONSTRUCT A SHIELDING SYSTEM OVER THE SPILLWAY RIPPLES THAT DOES NOT COME INTO CONTACT WITH THE EXISTING CONCRETE CURB OR CONCRETE RIPPLE SYSTEM.
5. CONTRACTOR SHALL MAINTAIN SAMPLES OF THE LOWER BASIN WALL, FLOOR AND THE UPPER BASIN FLOORS. THESE SHALL BE HELD ONSITE TILL THE CONCLUSION OF THE PROJECT. FLOOR SAMPLES SHALL BE 3'X3', WALL SAMPLES SHALL BE 1'X1'.
6. CONTRACTOR SHALL SUBMIT DETAIL SUBMITTAL DRAWINGS SHOWING THE PROTECTION OF THE STATUE, BENCHES, SPILLWAY, AND OTHER SENSITIVE ITEMS.

Project:
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FOUNTAIN**



**WINFIELD ROBBINS
MEMORIAL GARDEN
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ARLINGTON, MA**

Weston & Sampson

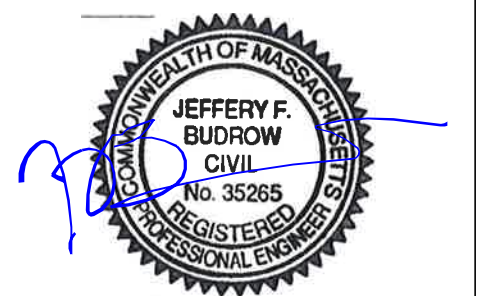
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Consultants:

Revisions:

Rev	Date	Description

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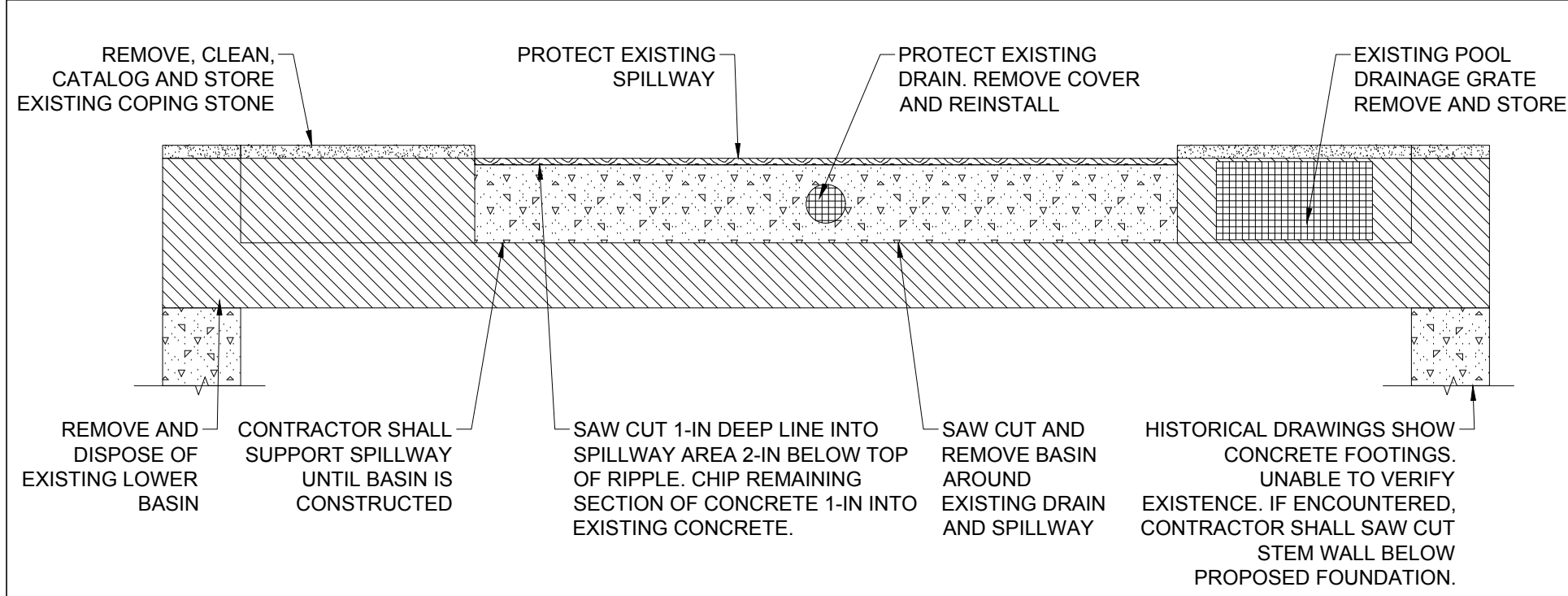
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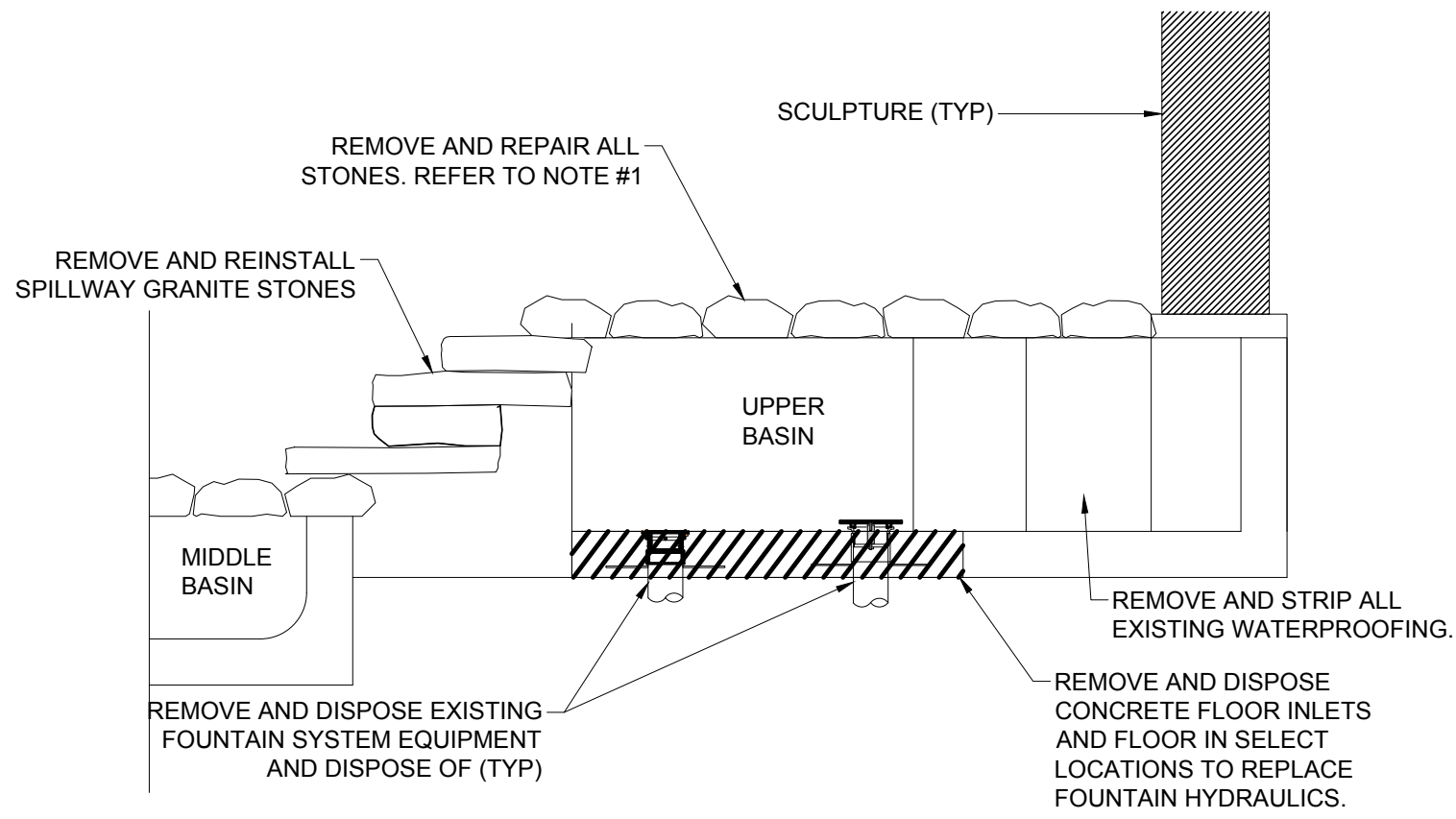
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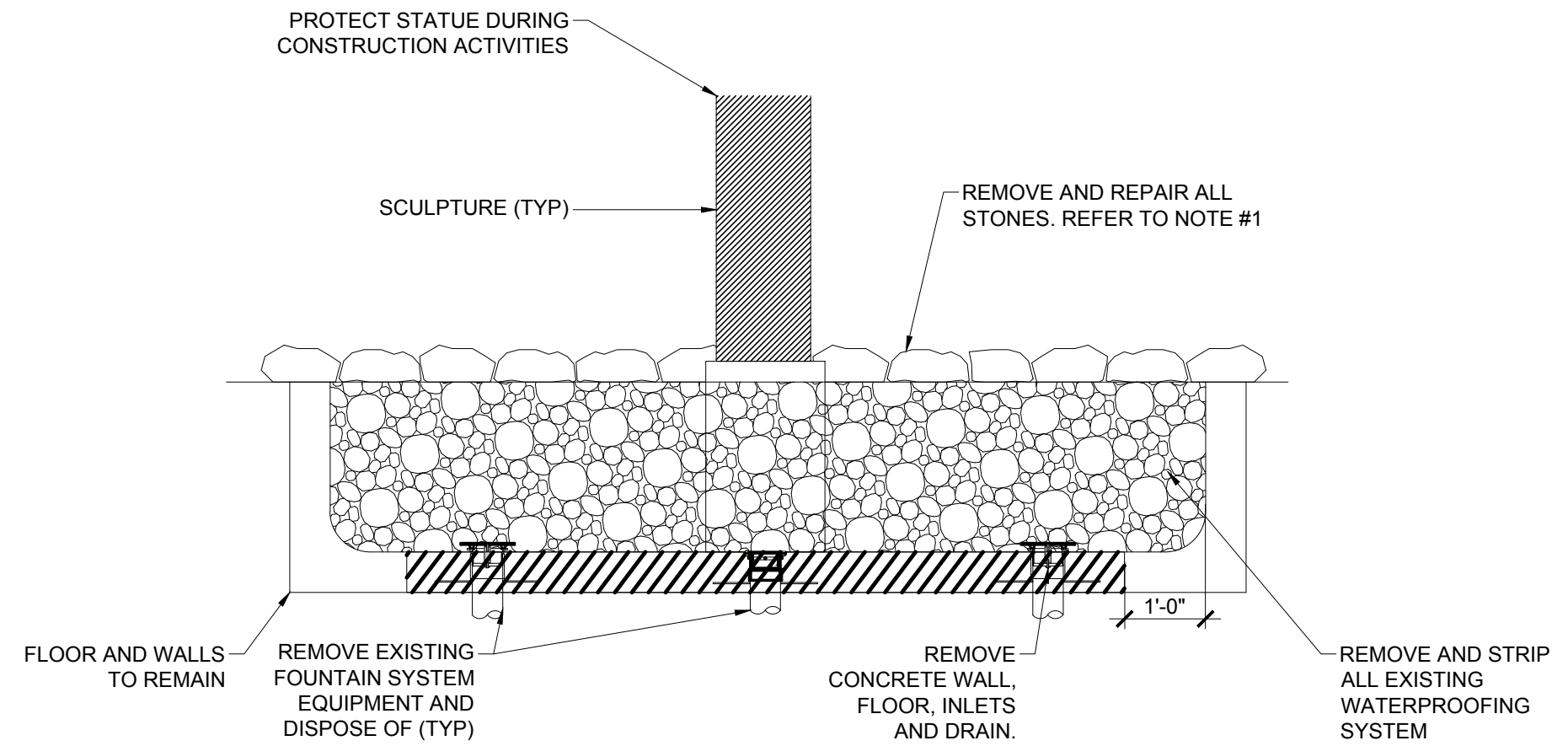
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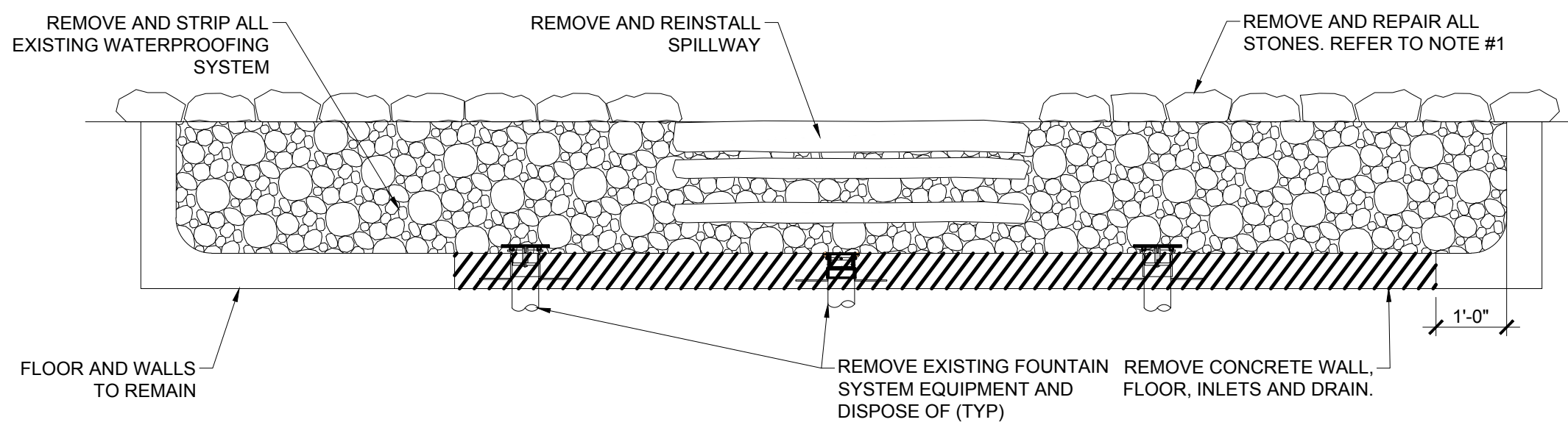
1 LOWER BASIN SECTION
SCALE: 3/4" = 1'-0"



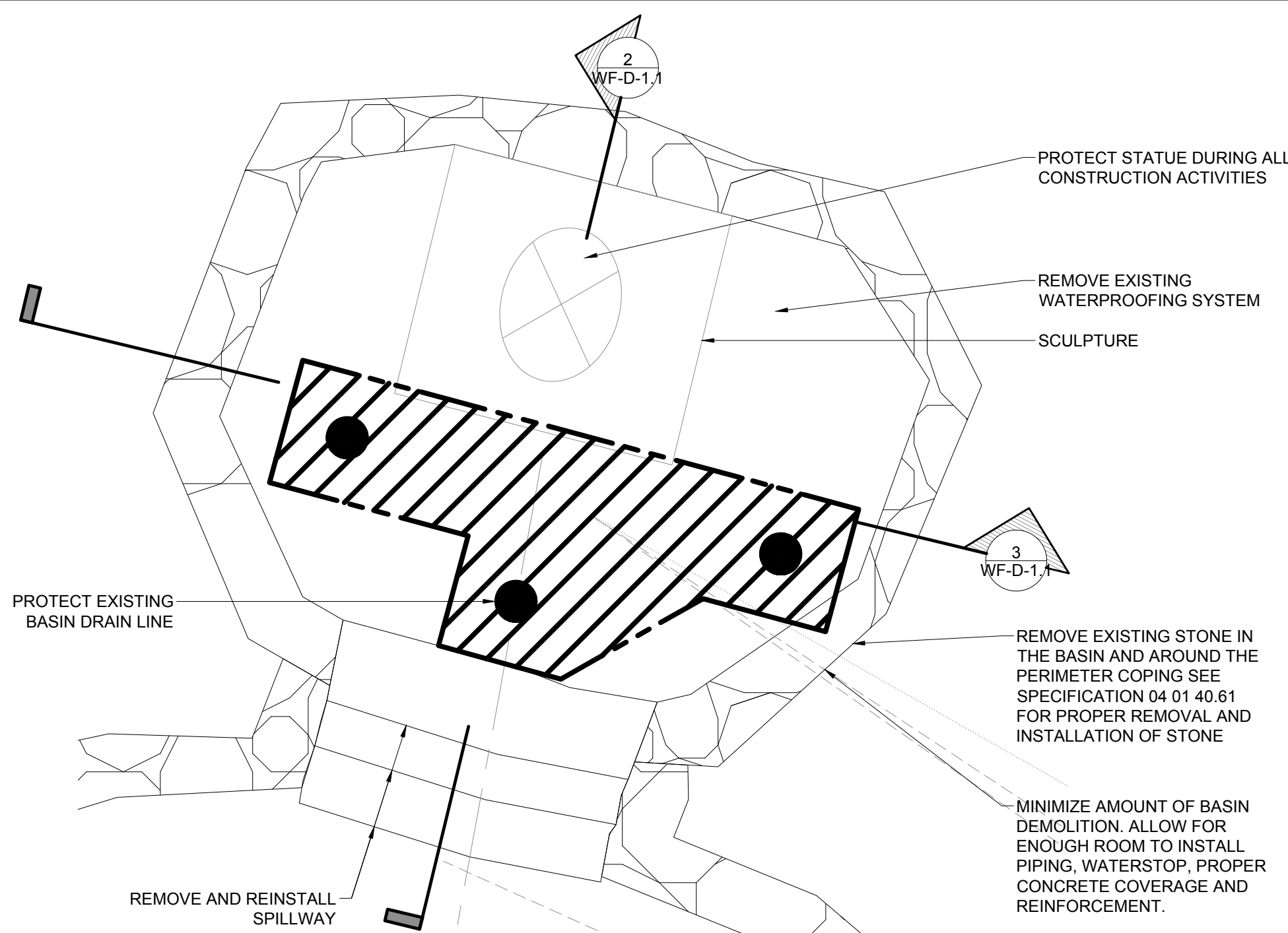
2 UPPER BASIN LONG SECTION
SCALE: 1/2" = 1'-0"



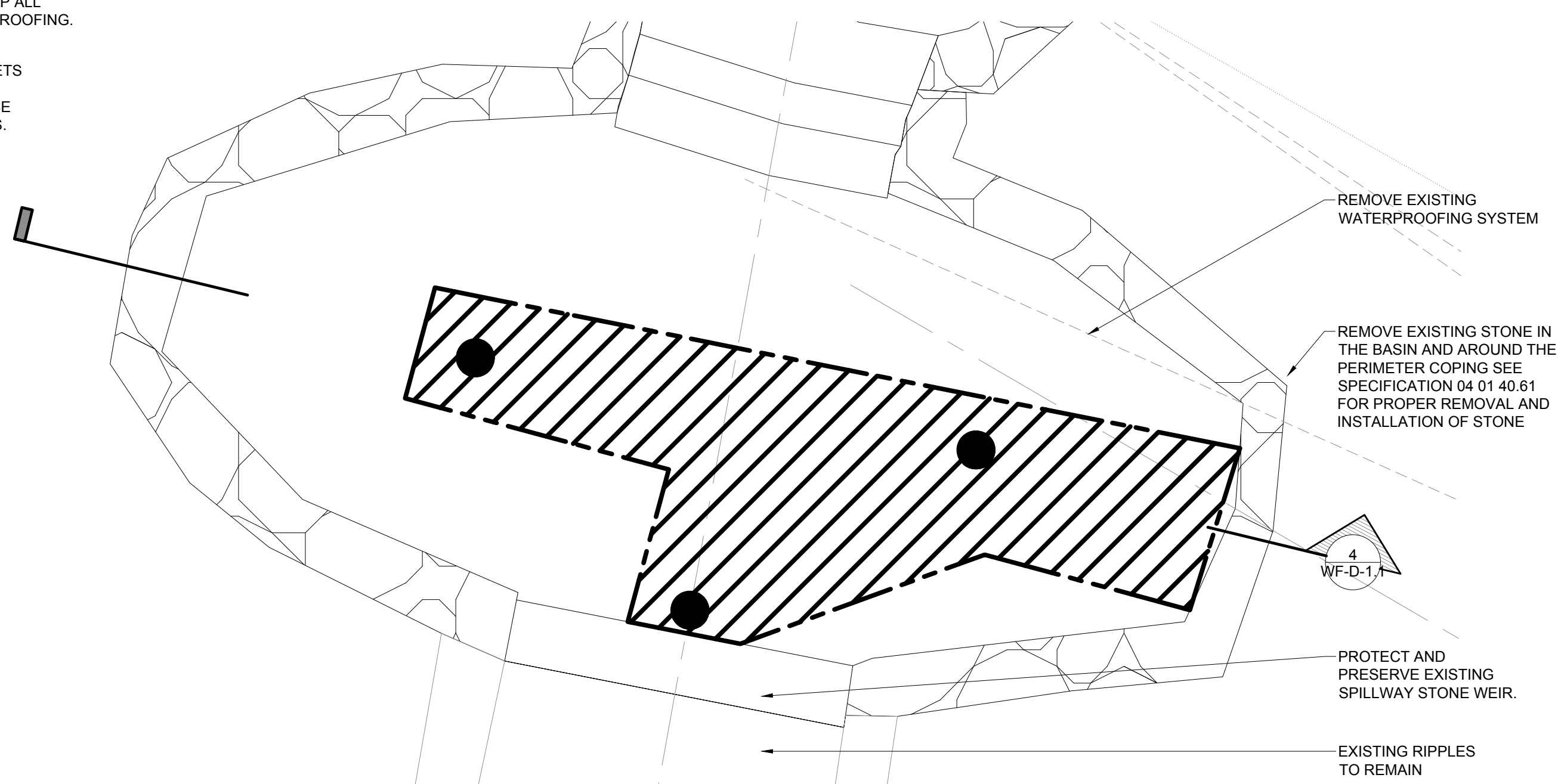
3 UPPER BASIN CROSS SECTION
SCALE: 1/2" = 1'-0"



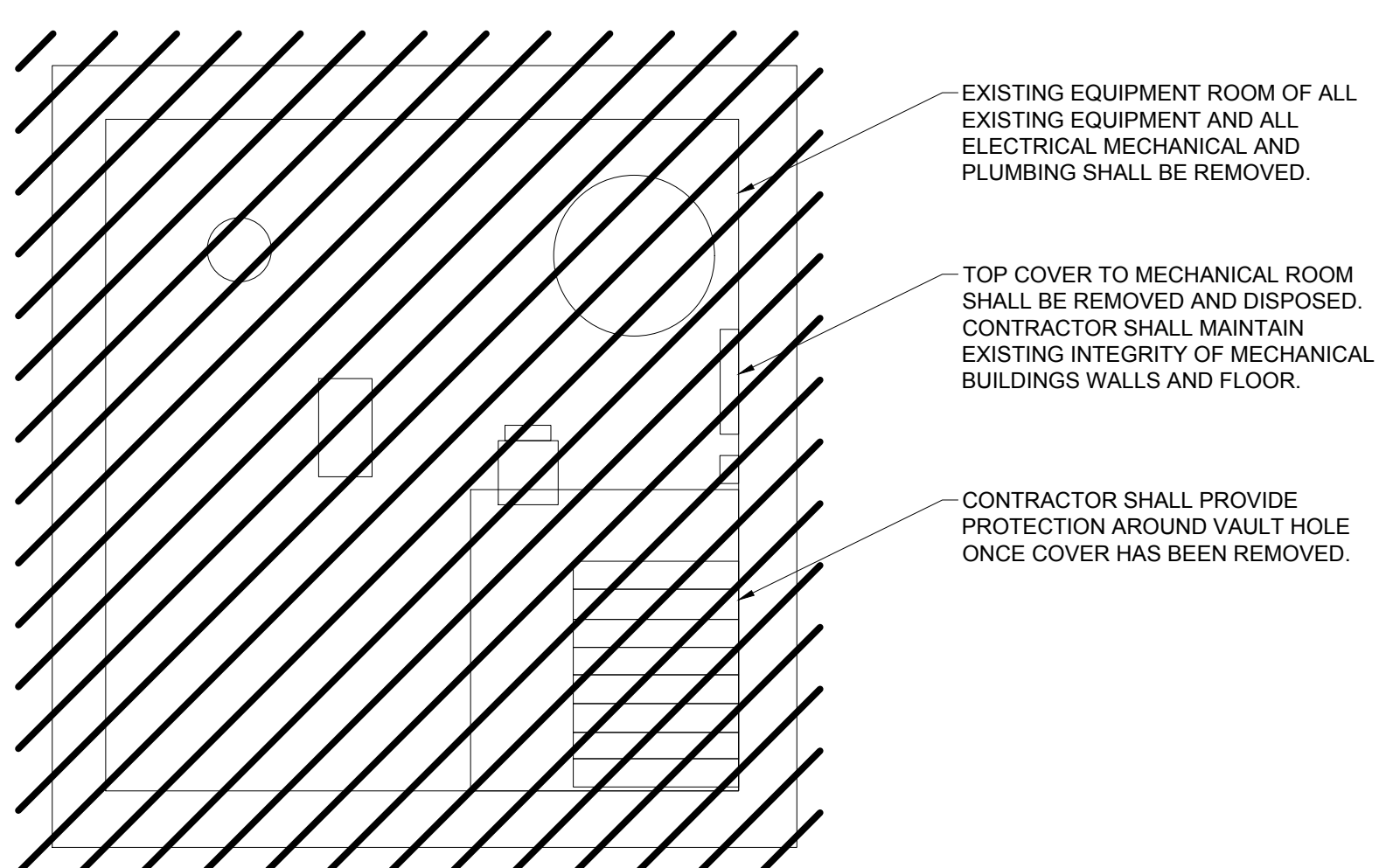
4 MIDDLE BASIN CROSS SECTION
SCALE: 1/2" = 1'-0"



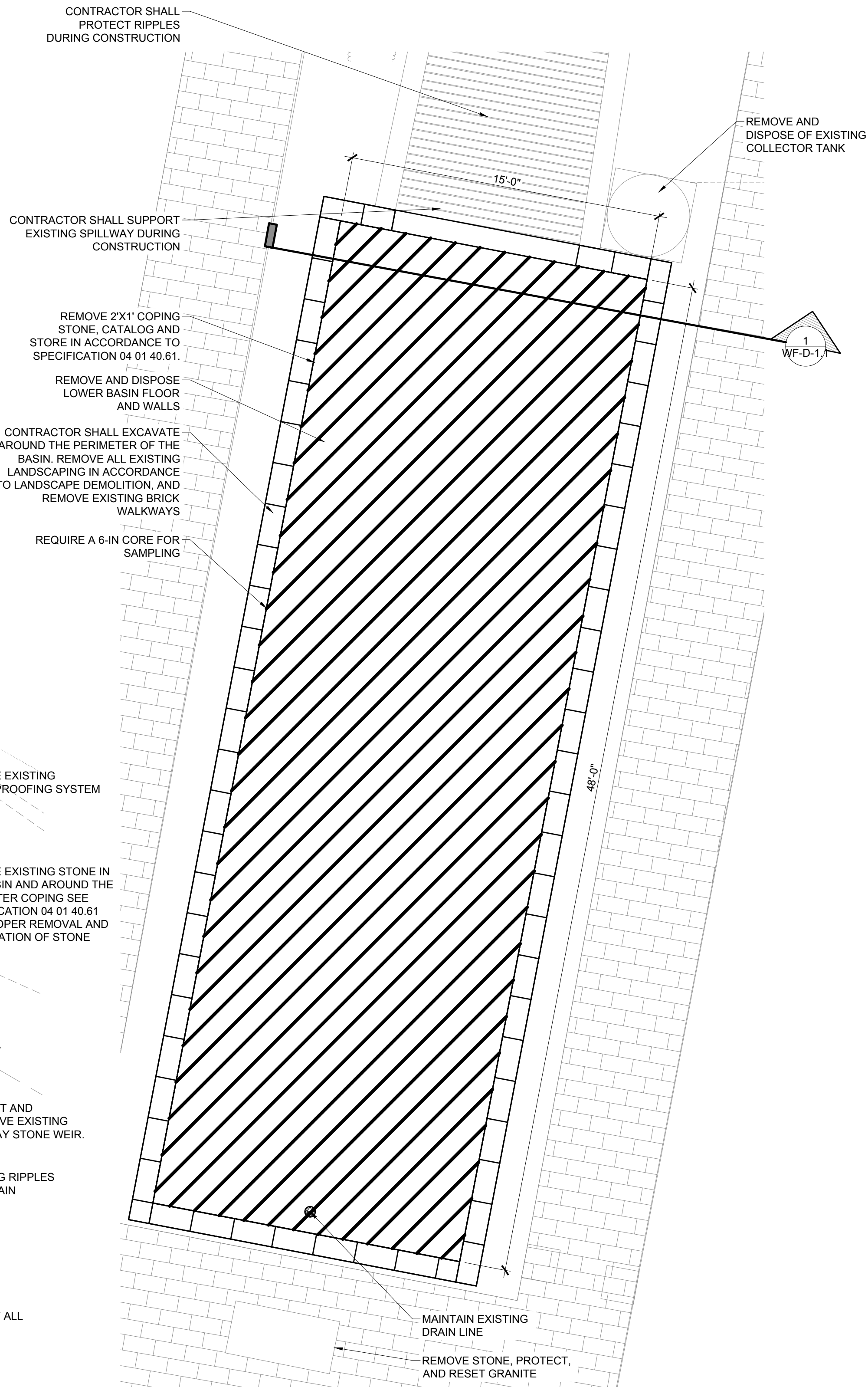
UPPER BASIN DEMOLITION
SCALE: 1/2" = 1'-0"



MIDDLE BASIN DEMOLITION
SCALE: 1/2" = 1'-0"



FILTER VAULT DEMOLITION
SCALE: 1/2" = 1'-0"



LOWER BASIN DEMOLITION
SCALE: 1/4" = 1'-0"

- NOTES:
- ALL REMOVED STONE PIECES WILL BE CATALOGED AND TAGGED TO INSURE ALL PIECES ARE REINSTALLED IN THE EXACT ORDER, LOCATION AND POSITION AS PRIOR TO CONSTRUCTION.
 - ALL CURRENT HYDRAULIC EQUIPMENT, ELECTRICAL PANELS, AND DOMESTIC WATER FEEDS SHALL BE REMOVED AND REPLACED IN ACCORDANCE TO WF-3.0.
 - CONTRACTOR IS RESPONSIBLE FOR ALL STONE PIECES. ANY STONE PIECE NOT CORRECTLY TAGGED AND CATALOGUED IS THE RESPONSIBILITY OF THE CONTRACTOR TO RESET TO THE PROPER LOCATION.
 - CONTRACTOR IS RESPONSIBLE FOR STORING ALL REMOVED PIECES AND MAINTAINING THEIR RESPECTIVE INTEGRITIES.
 - CONTRACTOR TO MAINTAIN EXISTING RIPPLES INTEGRITY. ANY HARM TO THE RIPPLES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO THE OWNERS DISCRETION.
 - ANY LOOSE, CRACKED, OR SPALLING CONCRETE SHALL BE CHIPPED, REMOVED AND PROPERLY PATCHED.
 - CONTRACTOR SHALL SURVEY AND RECORD ALL EXISTING ELEVATIONS TO MATCH ON THE REBUILD OF THE WATER FEATURE.

Consultants:

Revisions:

Rev	Date	Description

Seal:



CONSTRUCTION DOCUMENTS

Date: 03/02/2018

Scale: AS NOTED

Drawn By: KTE/SAA

Reviewed By: MPM

Checked By: TMS

Approved By: JFB

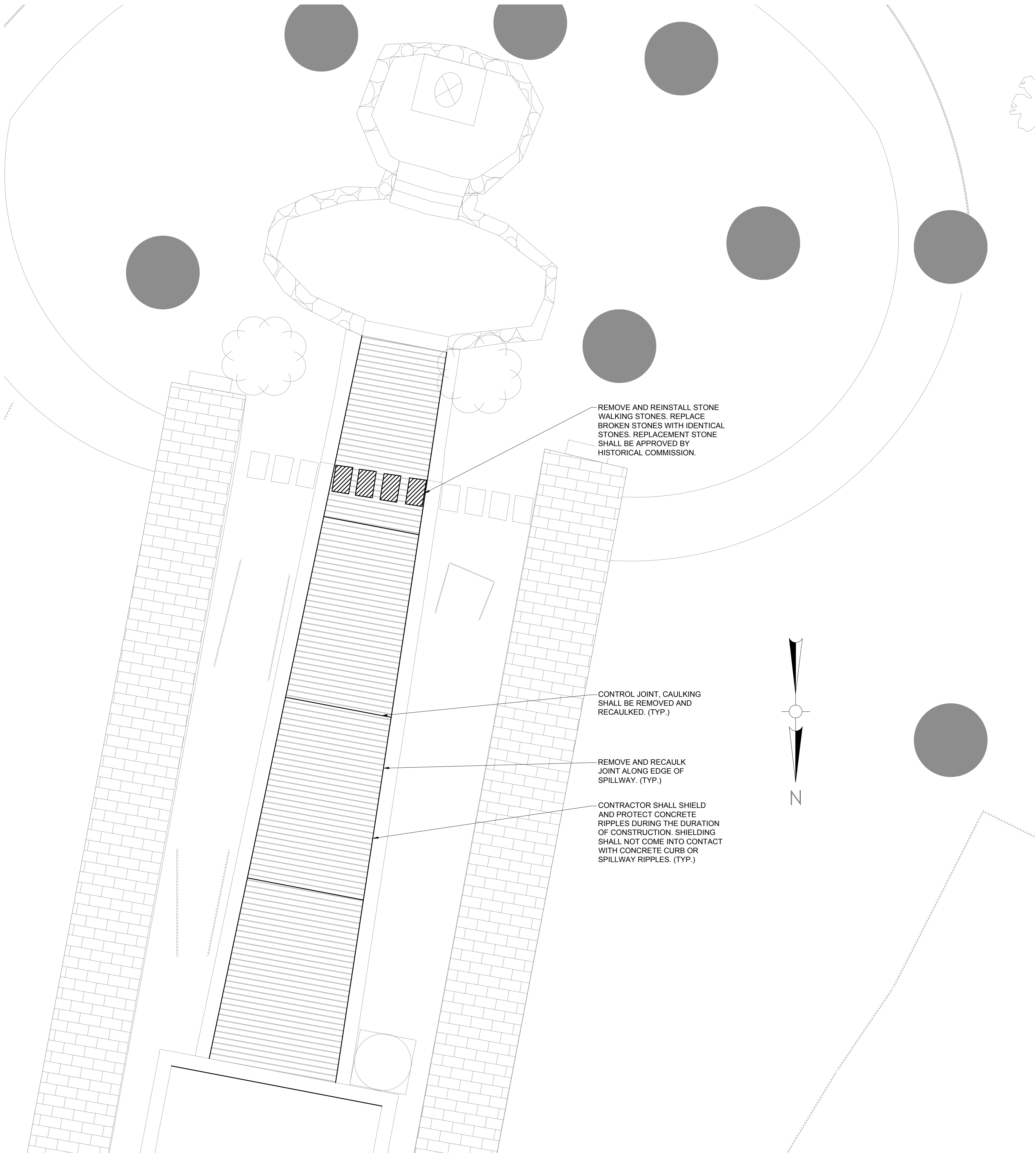
Drawing Title:

BASIN AND MECHANICAL DEMOLITION

Sheet Number:

WF-D-1.1

\\we03.local\MSD\Projects\MA_Arlington\Arlington - Menotomy - Fountain\CD\ART\G-Current_Set\Sheets\WF-D-1.2 SPILLWAY DEMOLITION.dwg



SPILLWAY PLAN VIEW

SCALE: 1/4" = 1'-0"

Project:
**ARLINGTON MENOTOMY
FOUNTAIN**



**WINFIELD ROBBINS
MEMORIAL GARDEN**
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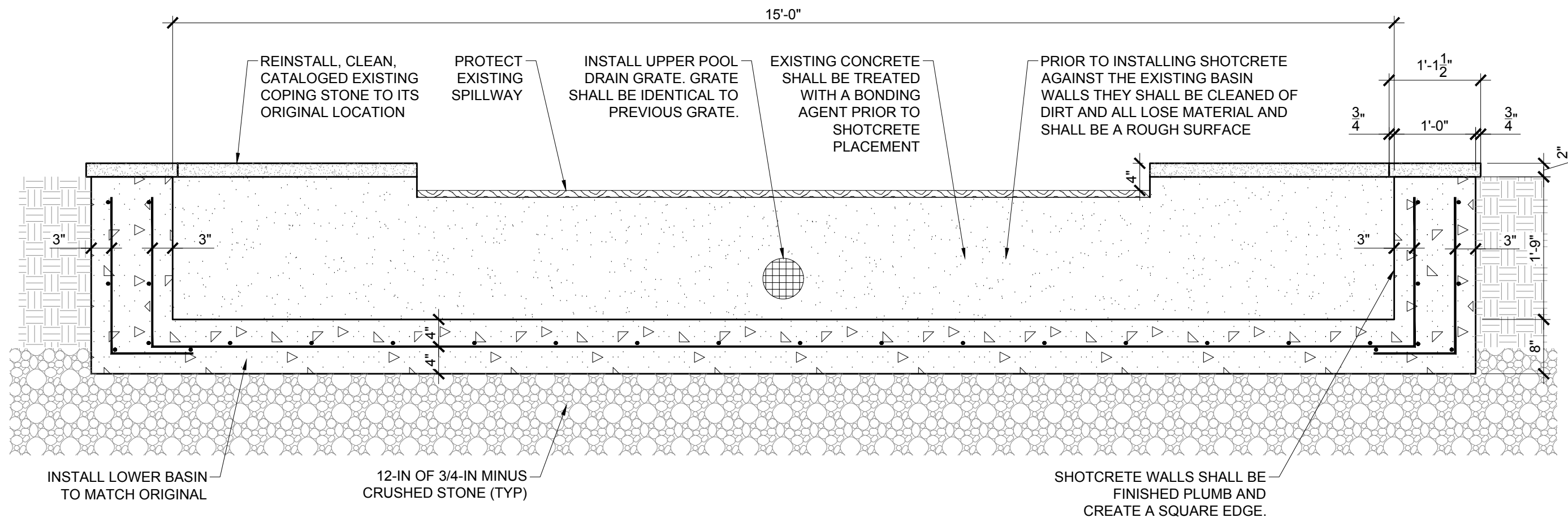
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SPILLWAY
DEMOLITION

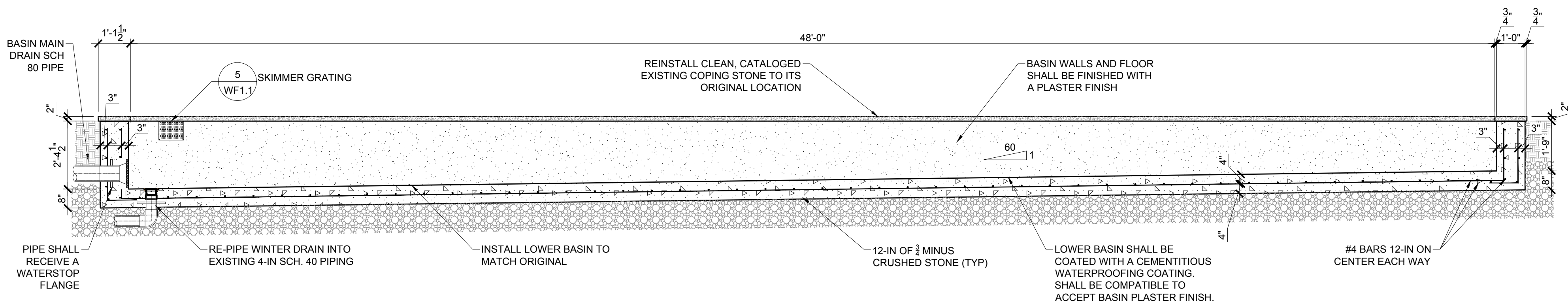
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\\we03.local\MSR\Projects\MA_Boston\OldBever\Aquatics\Arlington - Menotomy Fountain\QUARTY\0-Current_Sets\Sheets\WF-1.0 LOWER BASIN RENOVATION.dwg



1 LOWER BASIN SHORT SECTION
SCALE: 3/4" = 1'-0"



2 LOWER BASIN LONG SECTION
SCALE: 3/8" = 1'-0"

REINSTALL CATALOGED COPING STONE, IN ACCORDANCE TO SPECIFICATION 04 01 40.61.

INSTALL NEW LOWER BASIN FLOOR AND WALLS TO MATCH ORIGINAL

4 LOWER BASIN WALL (TYP) WF1.1


2 LOWER BASIN SKIMMER WF1.0



LOWER BASIN PLAN VIEW
SCALE: 1/4" = 1'-0"

- NOTES:
- CONTRACTOR TO REMOVE A 3'x3' SECTION OF THE LOWER POOL. THIS SECTION SHALL BE USED AS A SAMPLE FOR THE CONTRACTOR TO MATCH DURING NEW INSTALLATION CONSTRUCTION. CONTRACTOR TO BUILD A MOCKUP PRIOR TO CONSTRUCTION TO PROVE TO THE ENGINEER AND OWNER THAT THE NEW MATERIAL WILL MATCH.
 - ALL GRATES AND FITTINGS SHALL BE CHILD SAFE (PROOF), TAMPER PROOF, CLEANABLE AND ALLOW SUFFICIENT FLOW FOR SMOOTH PUMP OPERATION AND FITTED WITH SCREENS THAT ARE REMOVABLE WITH SPECIALIZED TOOLS.
 - ALL BRONZE COVERS SHALL BE ATTACHED.
 - CONTRACTOR SHALL PROVIDE A 2-FT BY 2-FT MOCK UP OF THE PLASTER FINISH FOR LOWER AND UPPER BASIN FOR HISTORICAL COMMISSIONS APPROVAL.

Project:
ARLINGTON MENOTOMY FOUNTAIN



WINFIELD ROBBINS MEMORIAL GARDEN
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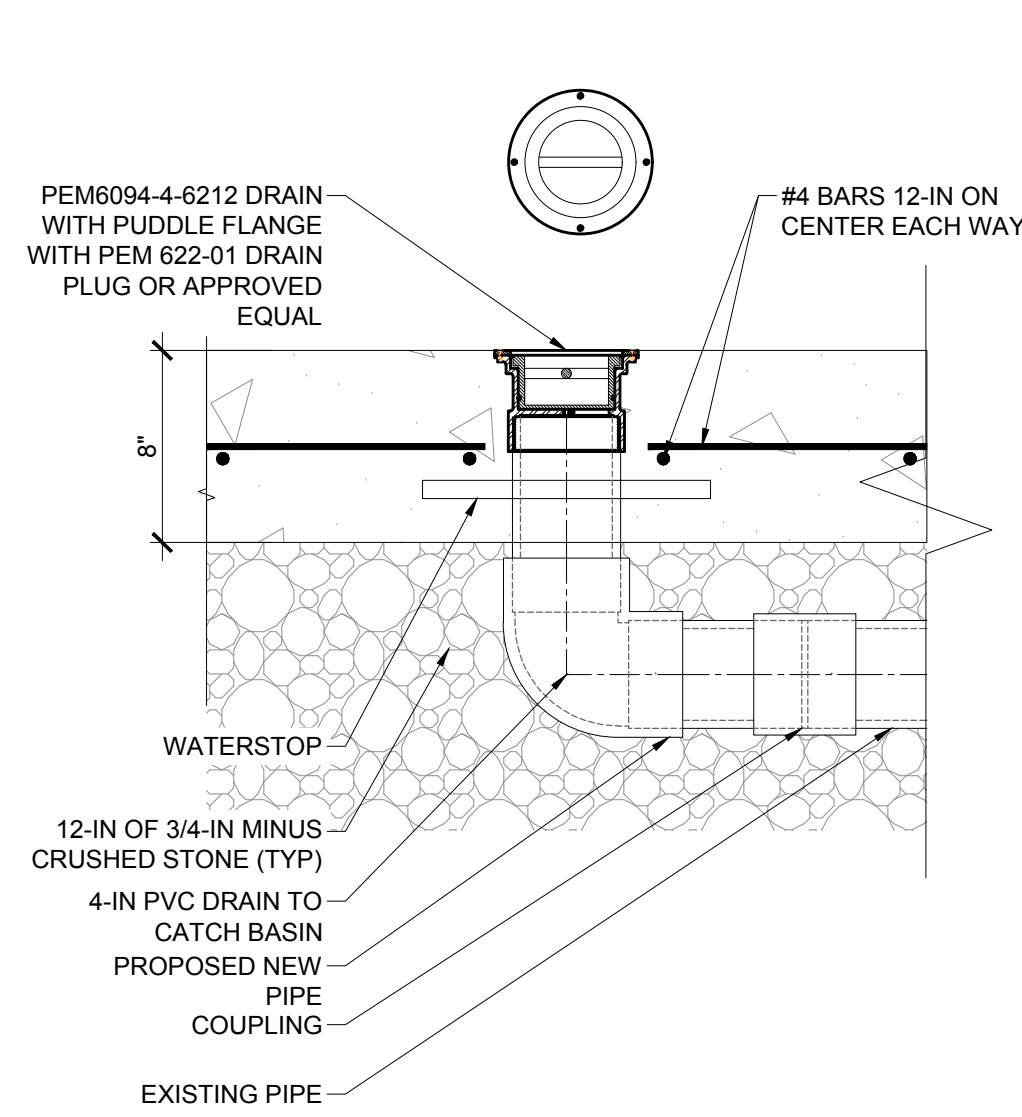
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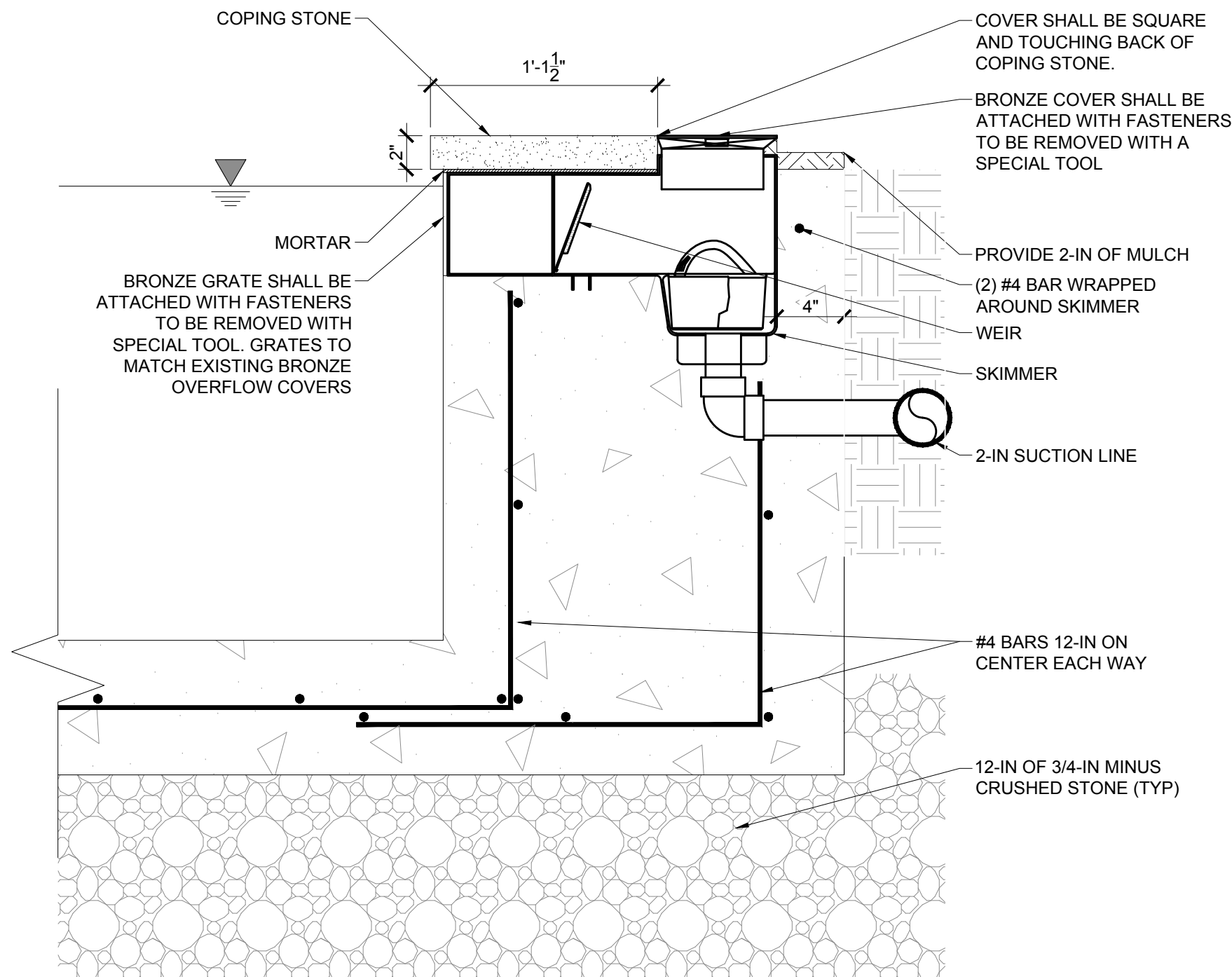
LOWER BASIN RENOVATION

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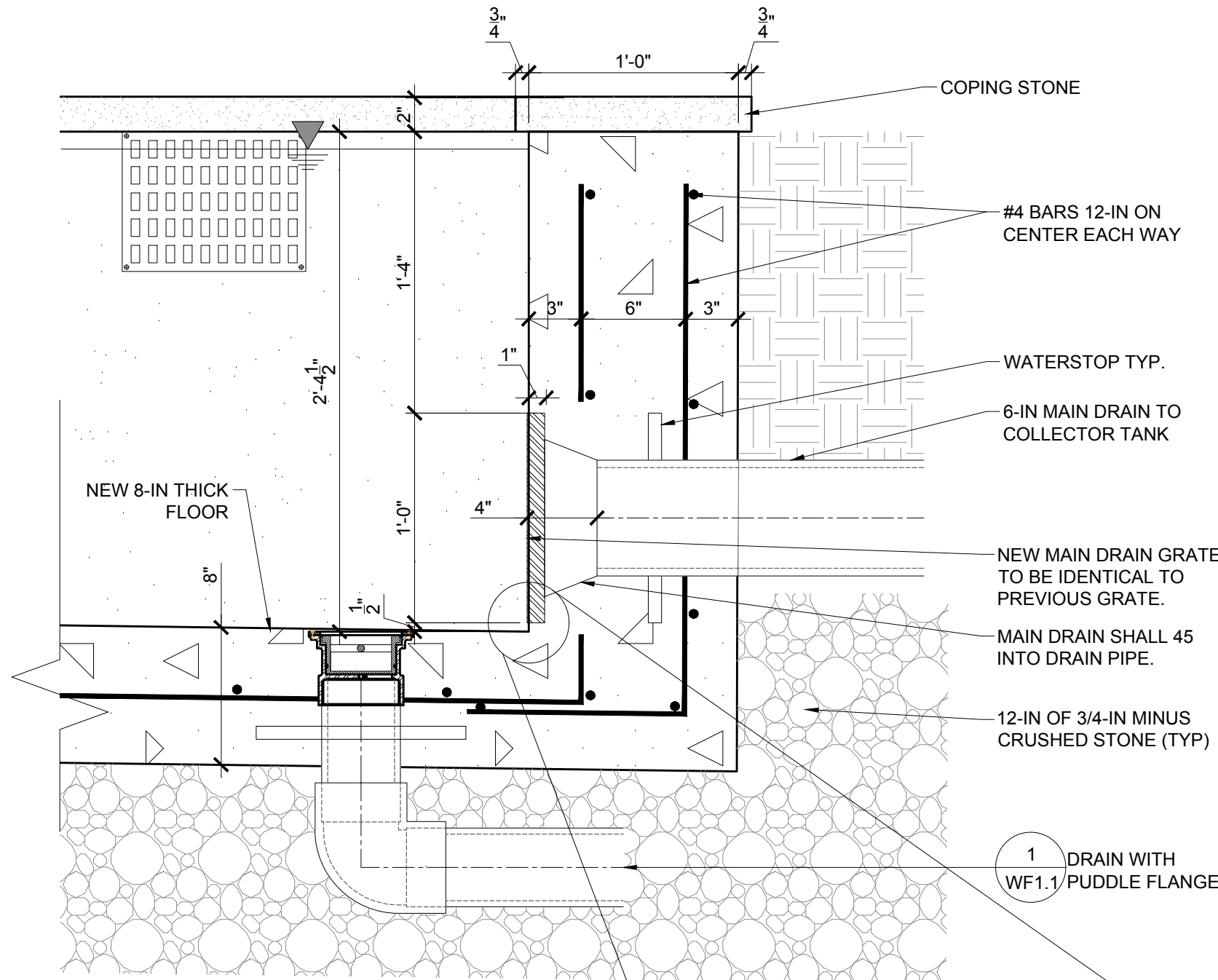
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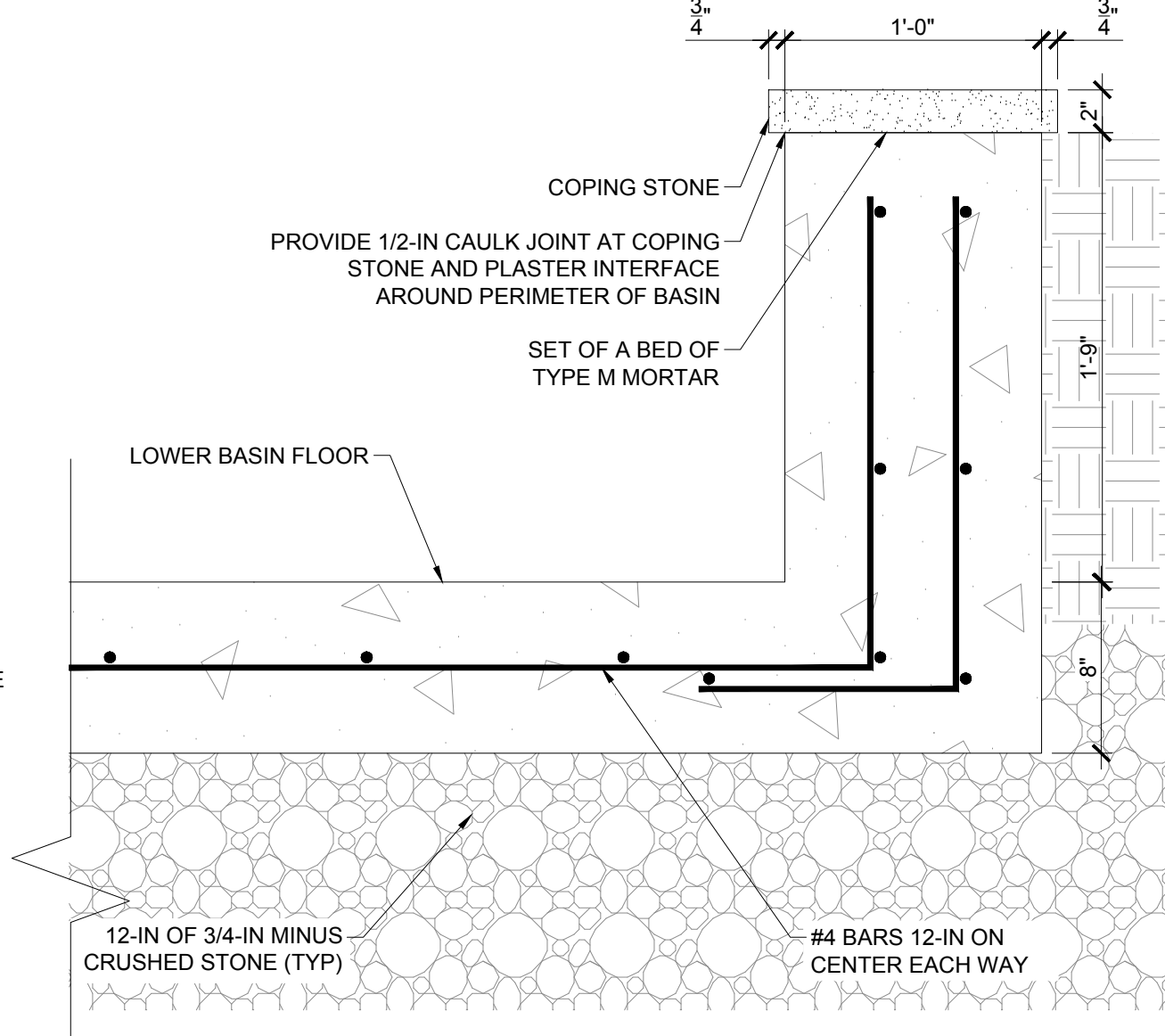
1 DRAIN WITH PUDDLE FLANGE
SCALE: 1-1/2" = 1'-0"



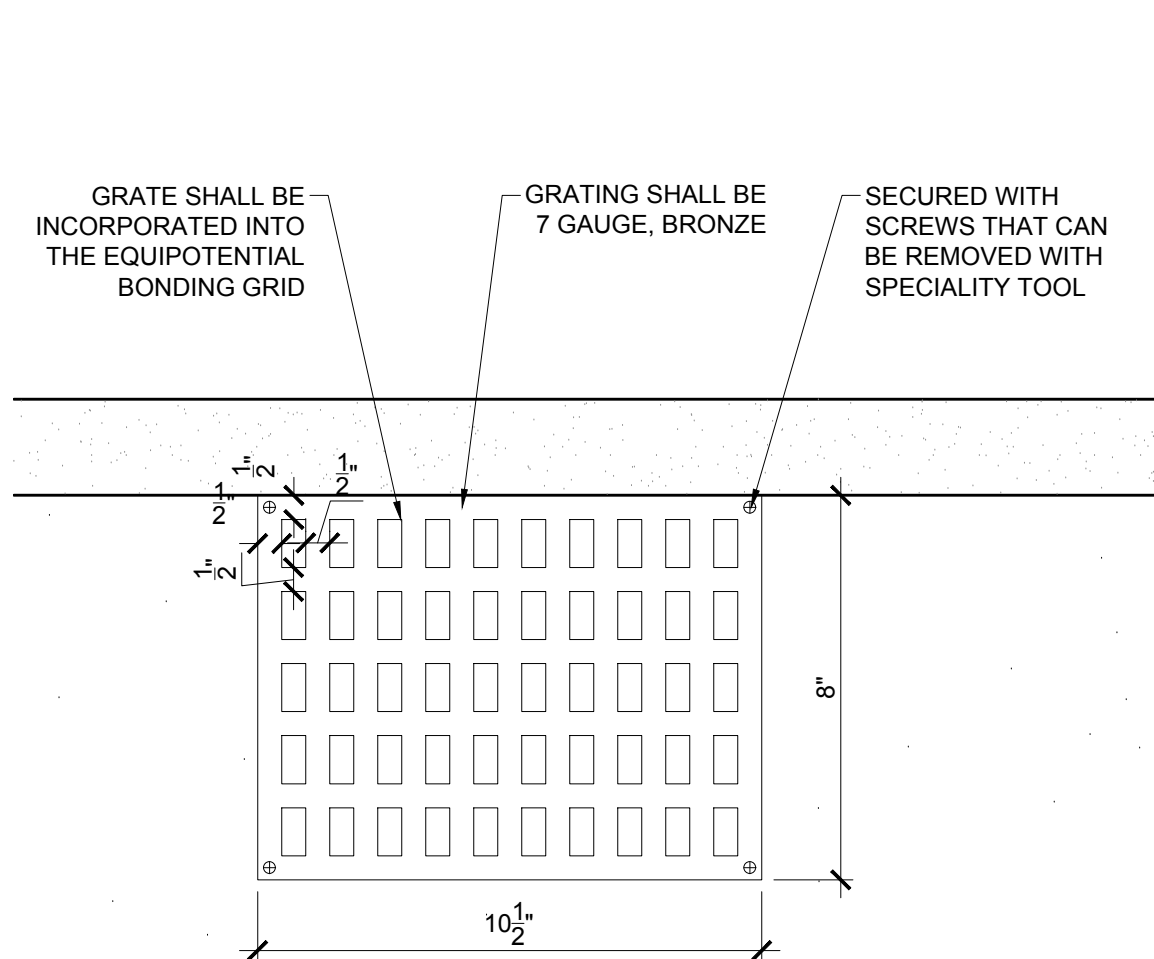
2 LOWER BASIN SKIMMER
SCALE: 1-1/2" = 1'-0"



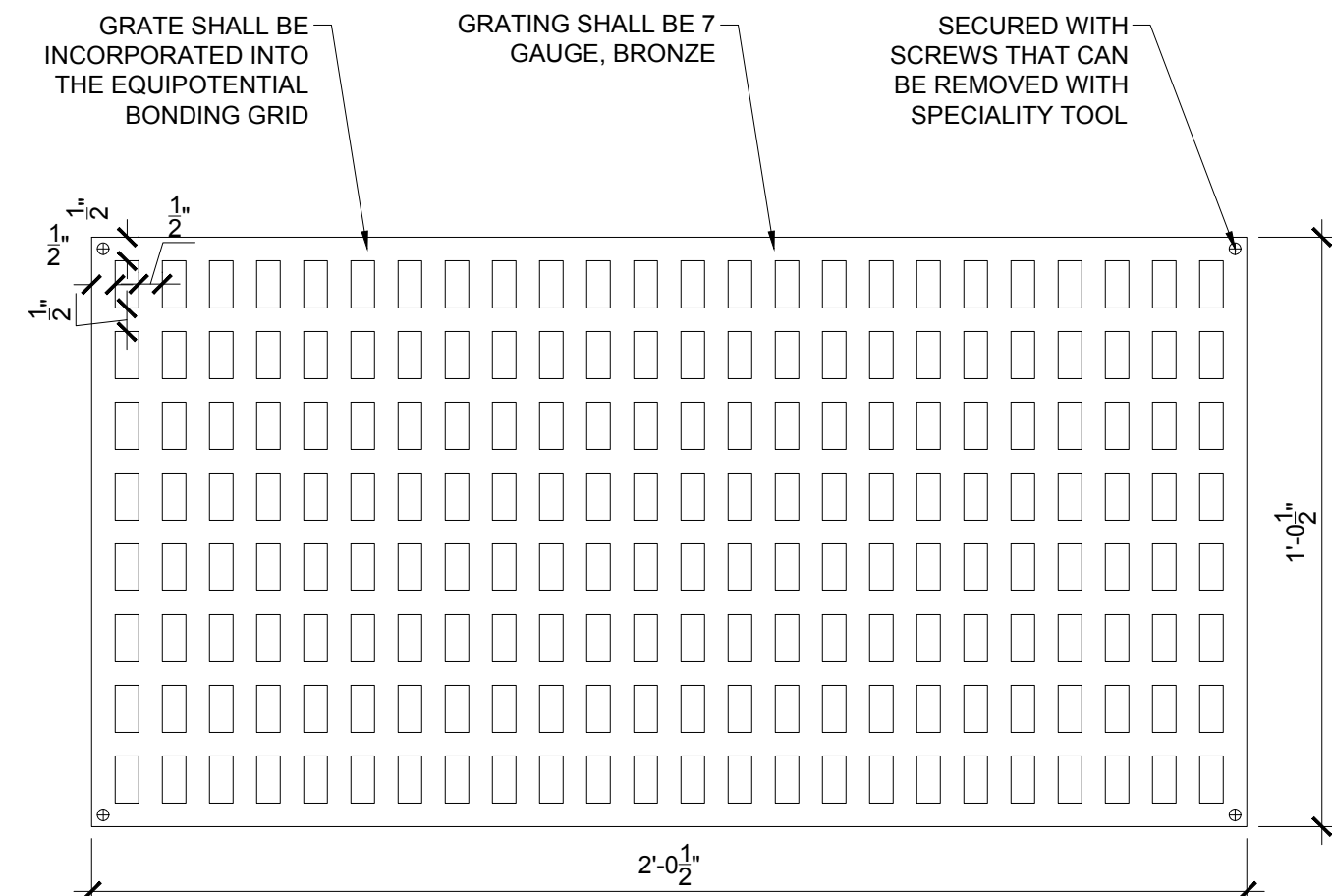
3 MAIN DRAIN
SCALE: 1-1/2" = 1'-0"



4 LOWER BASIN WALL
SCALE: 1-1/2" = 1'-0"

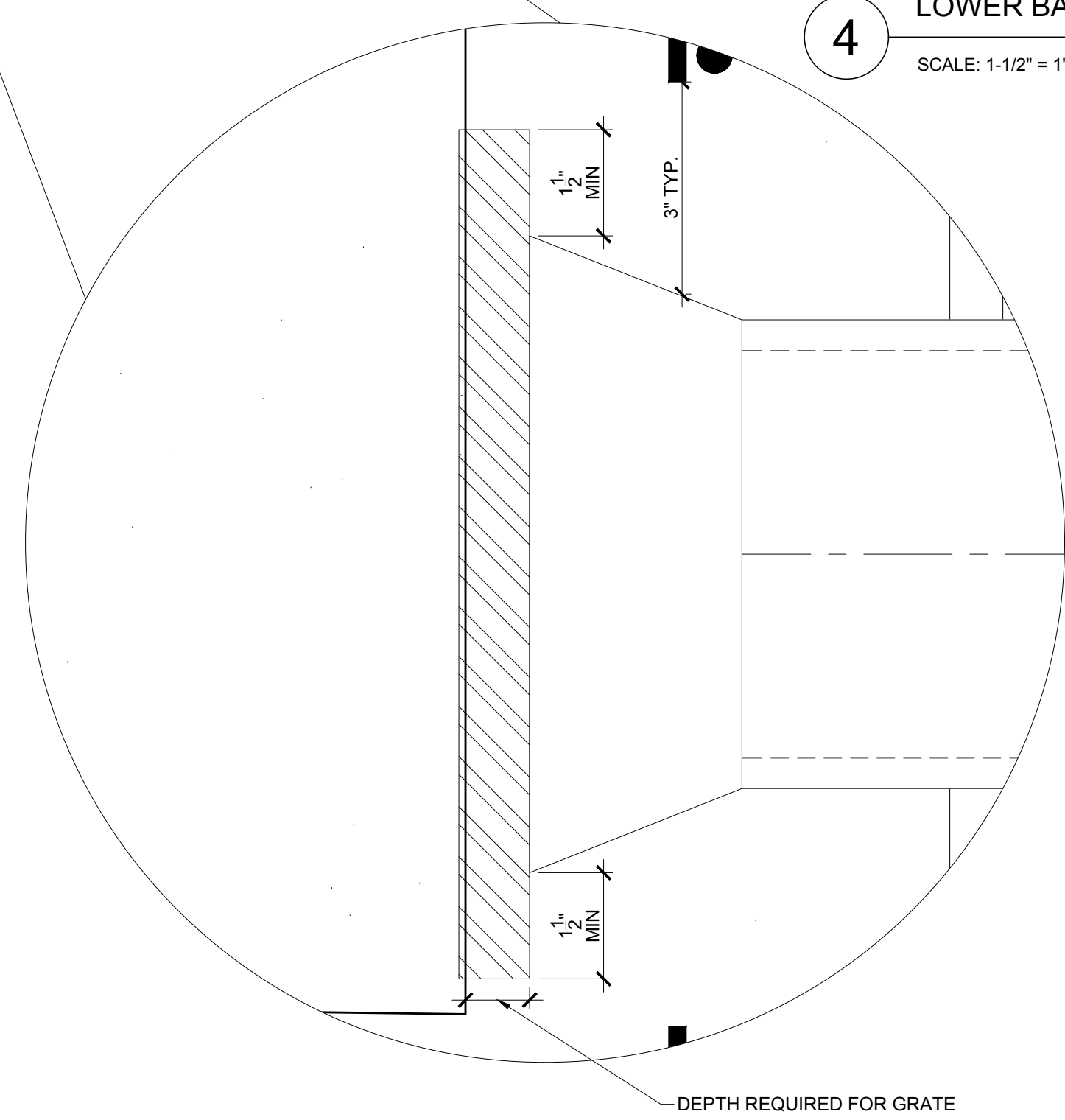


5 SKIMMER GRATING
SCALE: 3" = 1'-0"



6 MAIN DRAIN GRATE
SCALE: 3" = 1'-0"

MAIN DRAIN CALCULATIONS:
MAIN DRAIN VELOCITY:
(2) 24-IN x 12-IN MAIN DRAIN -
TOTAL OPEN AREA:
2 X 96 SQ. IN. (PER MANF.) / 192 = 1.33 SQ. FT.
TOTAL FLOW:
140 GPM/449 (GPM/(CU. FT./S)) = 0.31 CU. FT./S
TOTAL VELOCITY:
0.31 (CU. FT./S)/1.33 SQ. FT. = 0.23 F.P.S.

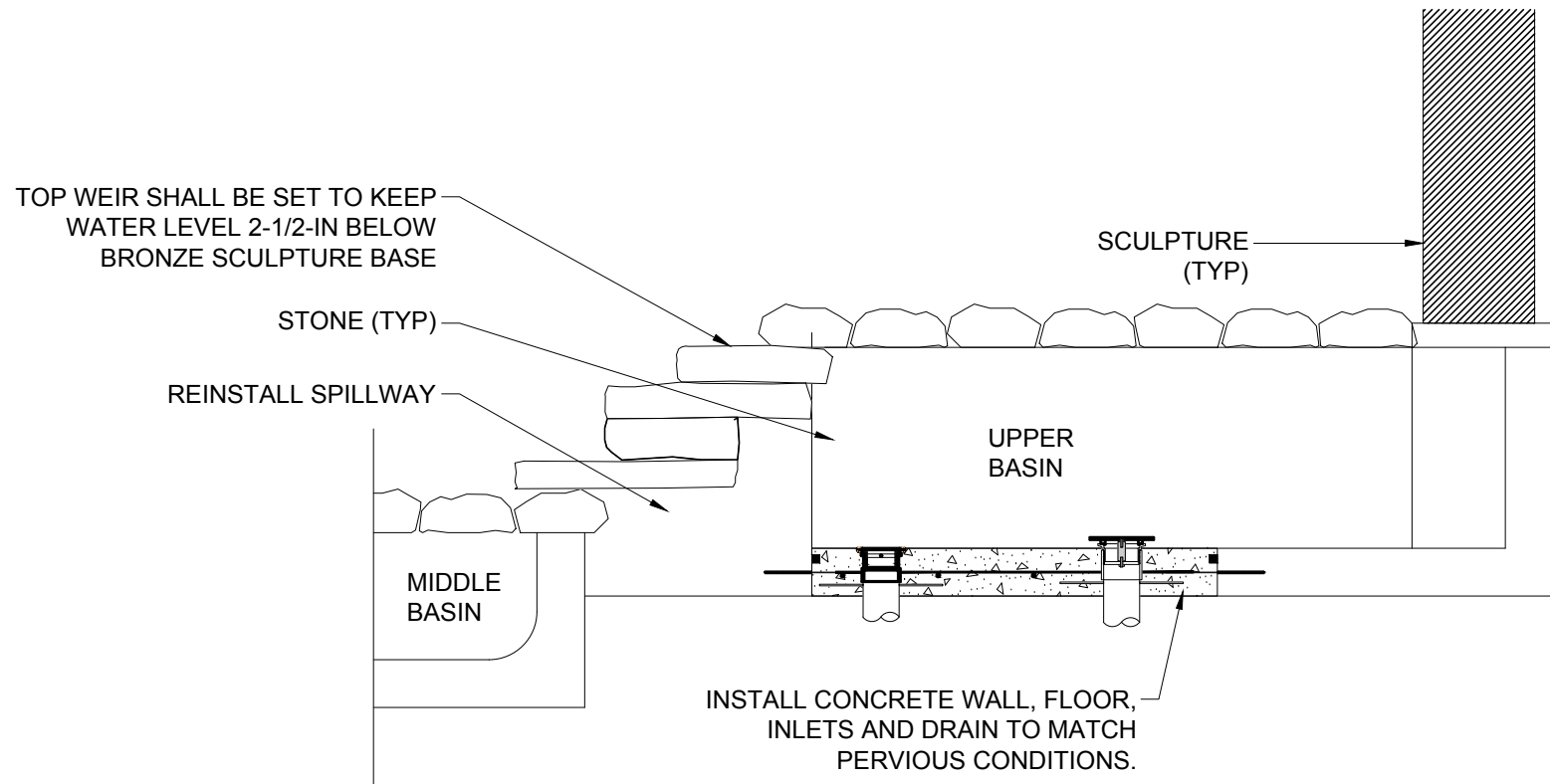


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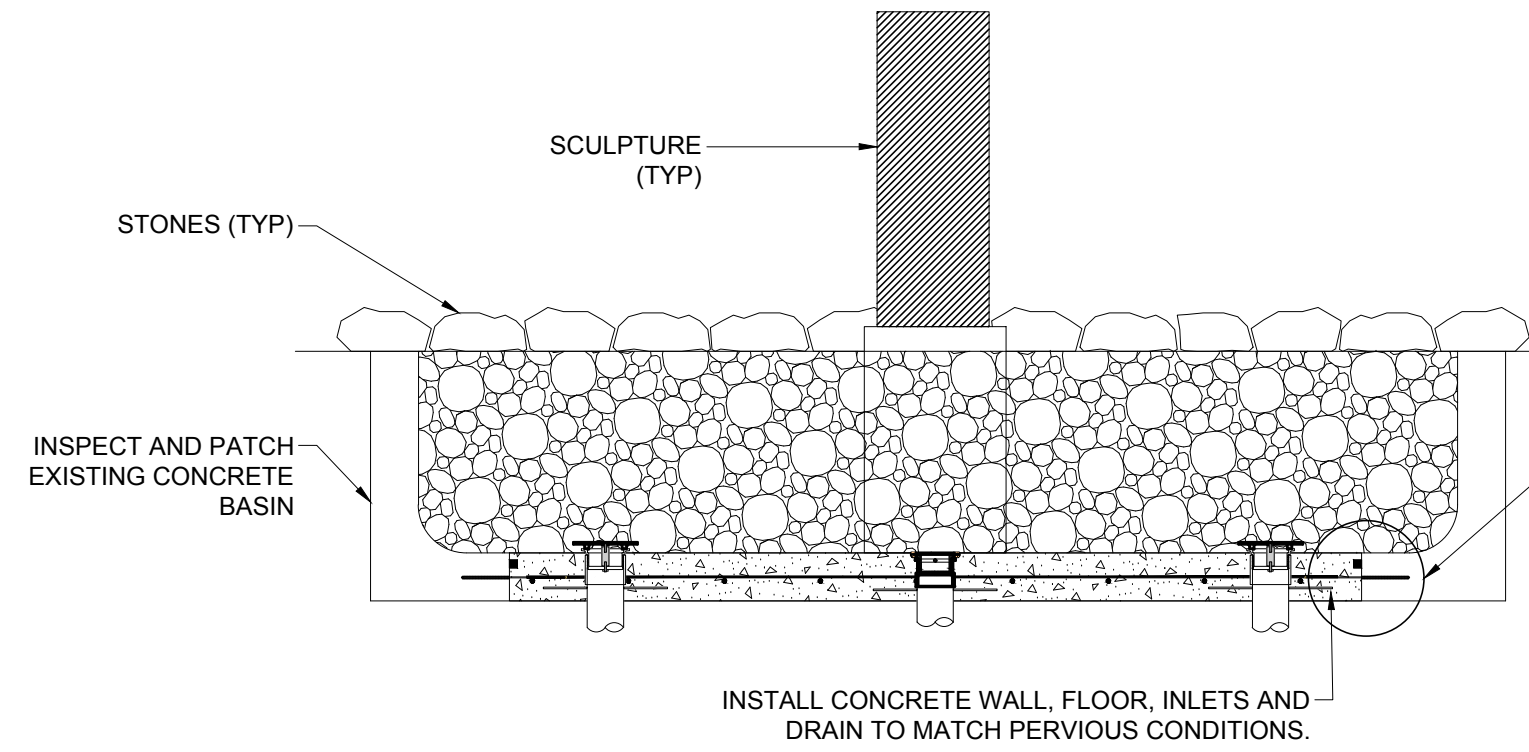


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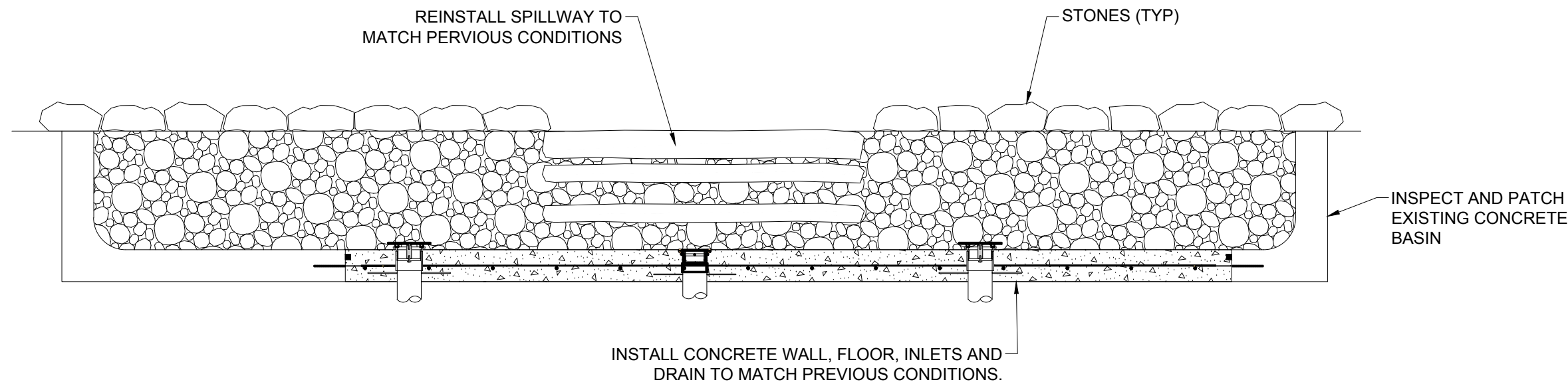
P:\MAL_Boston08\Drawn\Aquatics\Arlington - Menotomy Fountain\CADART\0-Current_Sets\Sheets\WF-2.0 MID AND UPPER BASIN REPAIRS.dwg



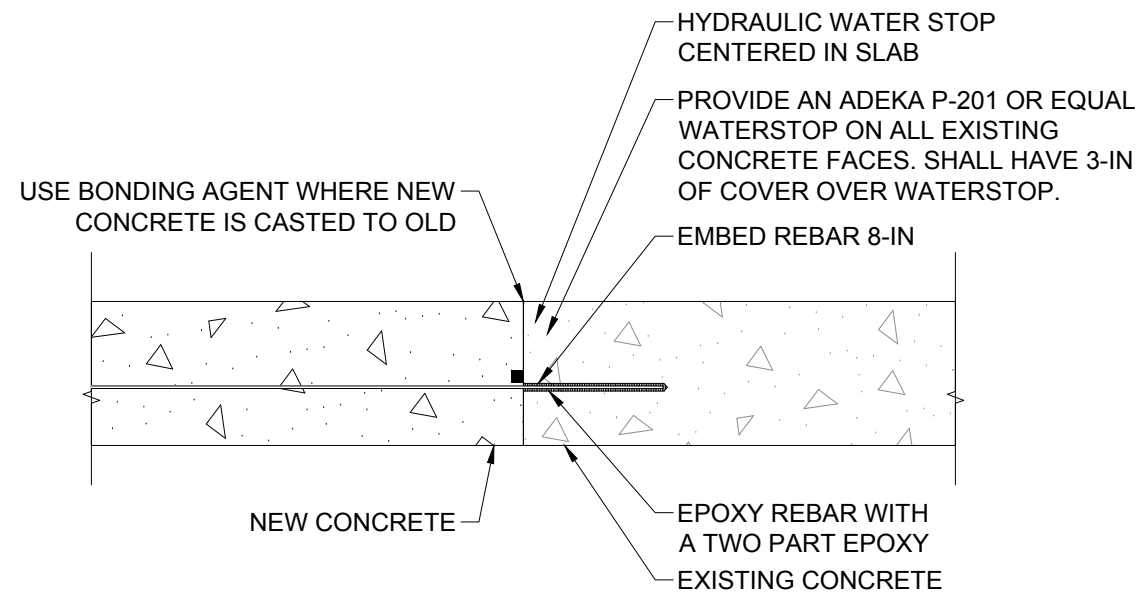
1 UPPER BASIN LONG SECTION
SCALE: 1/2" = 1'-0"



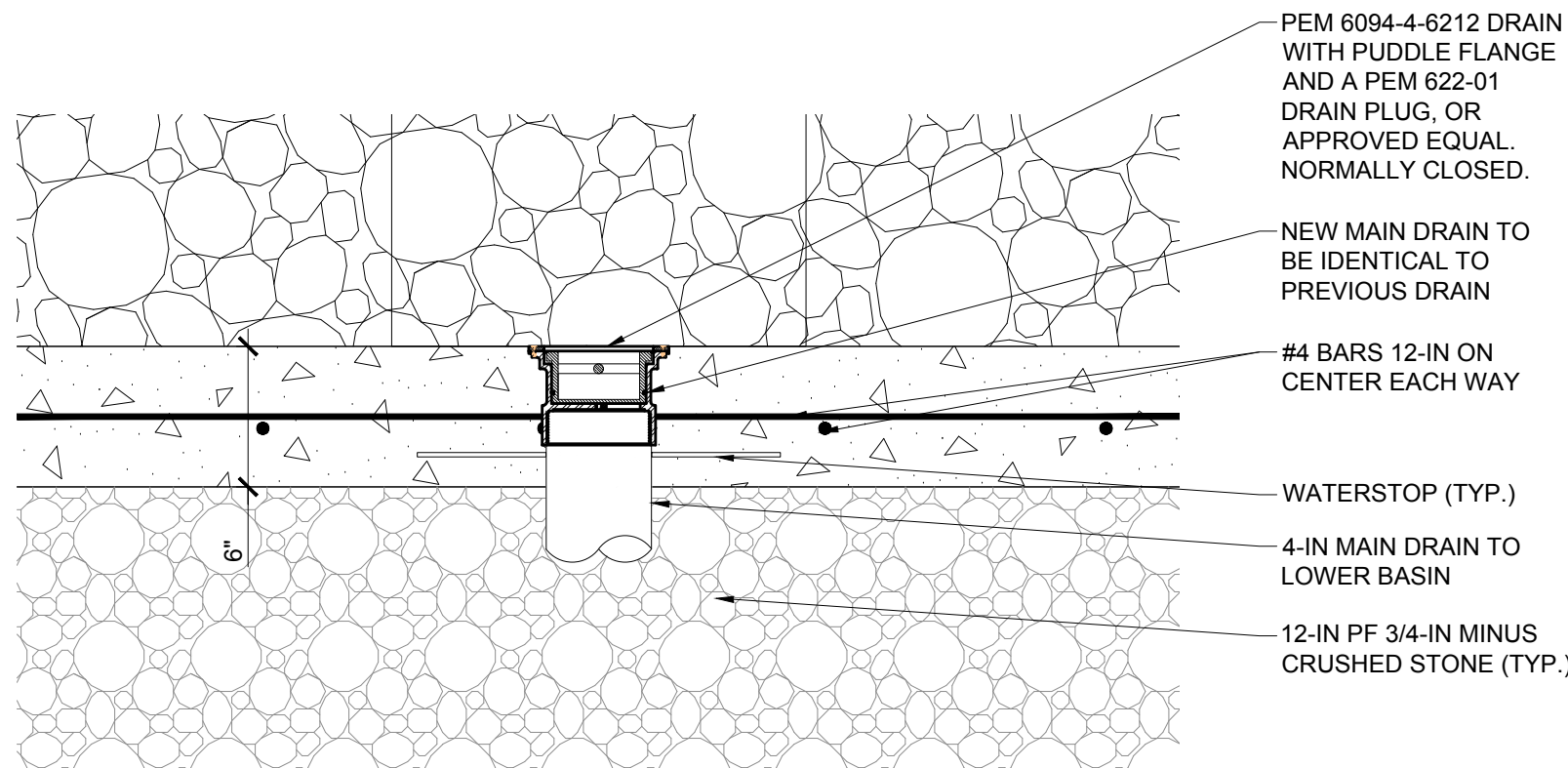
2 UPPER BASIN CROSS SECTION
SCALE: 1/2" = 1'-0"



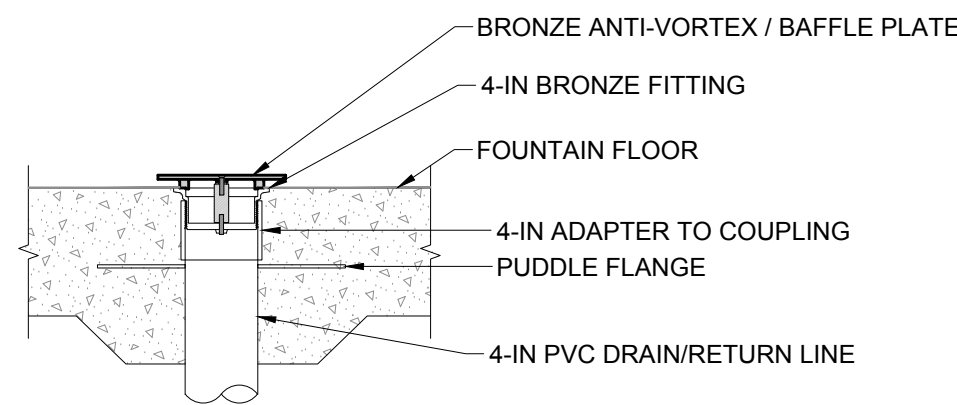
3 MIDDLE BASIN CROSS SECTION
SCALE: 1/2" = 1'-0"



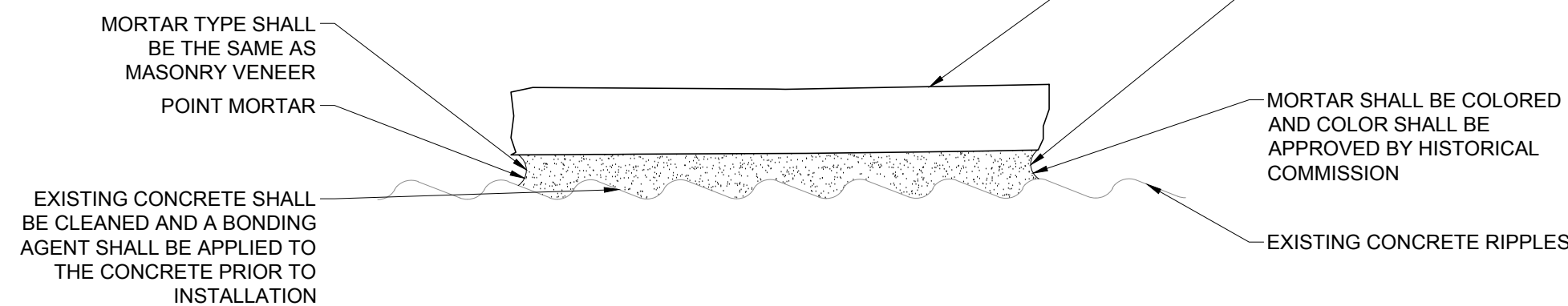
4 CONCRETE BASIN SEAM REPAIR HORIZONTAL AND VERTICAL
SCALE: 1'-1/2" = 1'-0"



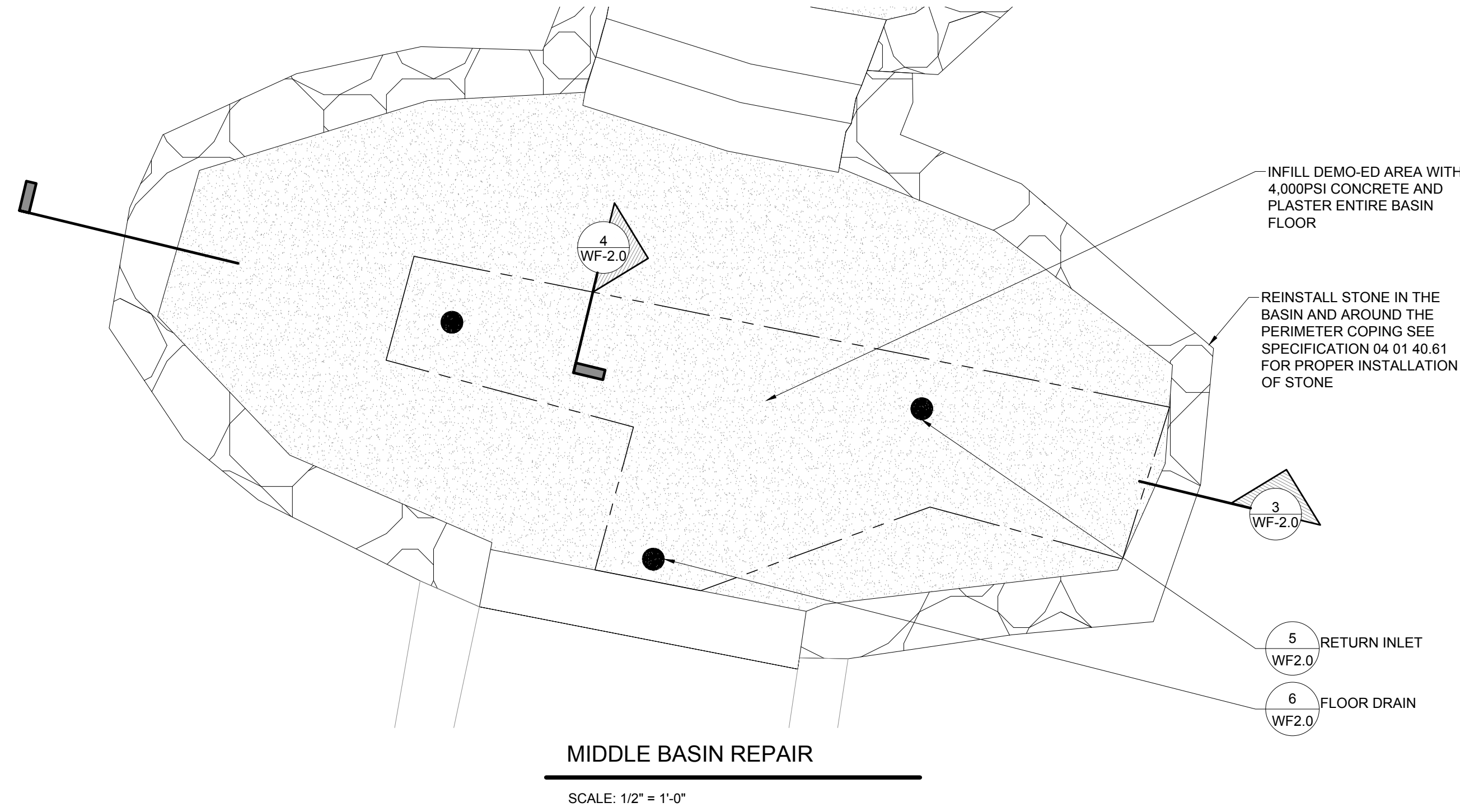
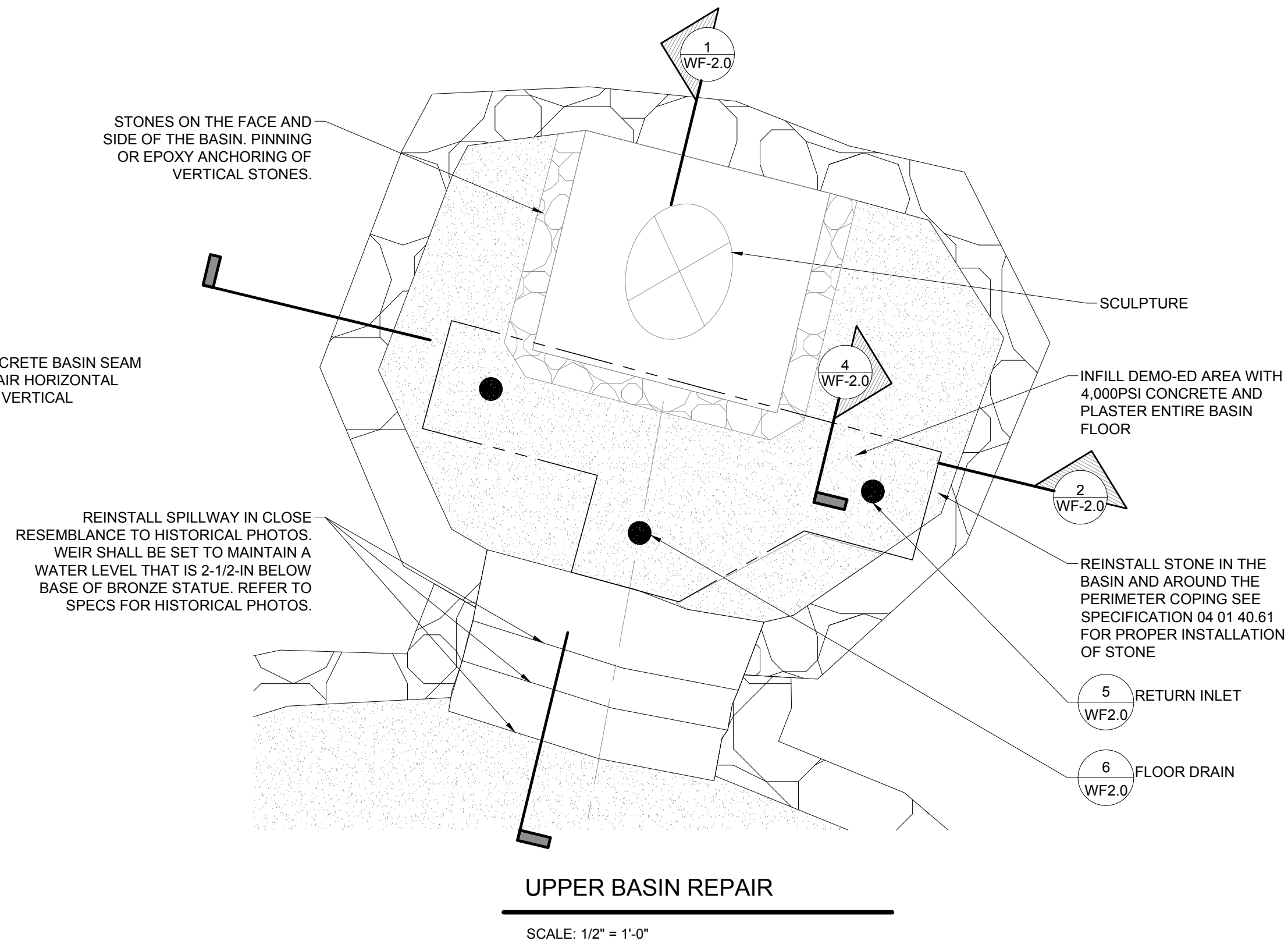
6 FLOOR DRAIN
SCALE: 1'-1/2" = 1'-0"



5 INLET RETURN
SCALE: 1" = 1'-0"



7 MASONRY STEPPING STONE
SCALE: N.T.S.



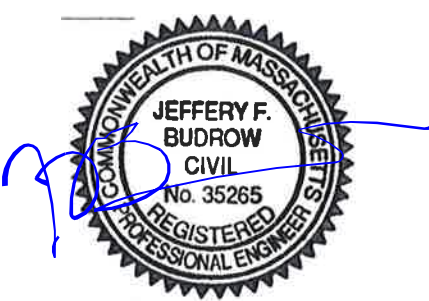
- NOTES:
- ALL REMOVED PIECES WILL BE CATALOGED, CLEANED AND TAGGED TO INSURE ALL PIECES ARE REINSTALLED IN THE EXACT ORDER, LOCATION AND POSITION AS PRIOR TO CONSTRUCTION.
 - CONTRACTOR IS RESPONSIBLE FOR ALL STONE PIECES. ANY STONE PIECE NOT CORRECTLY PLACED SHALL BE REMOVED AND RESET TO THE CORRECT LOCATION/POSITION.
 - ALL BASINS SHALL BE WATERPROOFED WITH CEMENTITIOUS. WATERPROOFING, AFTER INSTALLATION OF ALL WATER FITTINGS, CONCRETE SHALL BE GIVEN ADEQUATE TIME TO CURE PRIOR TO WATERPROOFING, PER MANUFACTURERS SPECIFICATION.
 - FINAL ELEVATION (DEPTH) OF ALL BASINS (UPPER, MID AND LOWER) SHALL BE RETURNED TO PREVIOUS ELEVATIONS (DEPTHS). CONTRACTOR SHALL SURVEY AND RECORD ALL ELEVATIONS.
 - USE FOR WATERSTOP ON CONSTRUCTION JOINTS, ADEKA P-201 OR APPROVED EQUAL.
 - BASIN SHALL BE WATERPROOFED WITH A CEMENTITIOUS WATERPROOFING TINTED WITH BLACK DYE TO CREATE A BLACK FINISH.
 - THE FLOOR OF THE UPPER AND MID BASINS SHALL BE FINISHED WITH A BLACK PLASTER FINISH.

Consultants:

Revisions:

Rev	Date	Description

Seal:



**CONSTRUCTION
DOCUMENTS**

Date: 03/02/2018

Scale: AS NOTED

Drawn By: KTE/SAA

Reviewed By: MPM

Checked By: TMS

Approved By: JFB

Drawing Title:

MIDDLE AND UPPER
BASIN REPAIRS

Sheet Number:

WF-2.0

**WINFIELD ROBBINS
MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA**

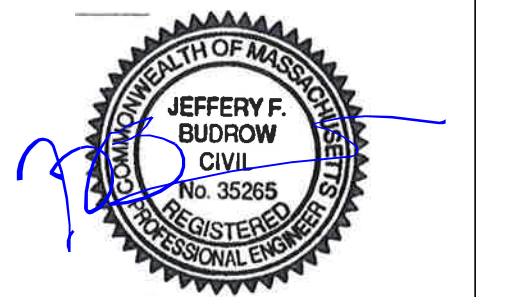
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Revisions:

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Seal:



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DOCUMENTS**

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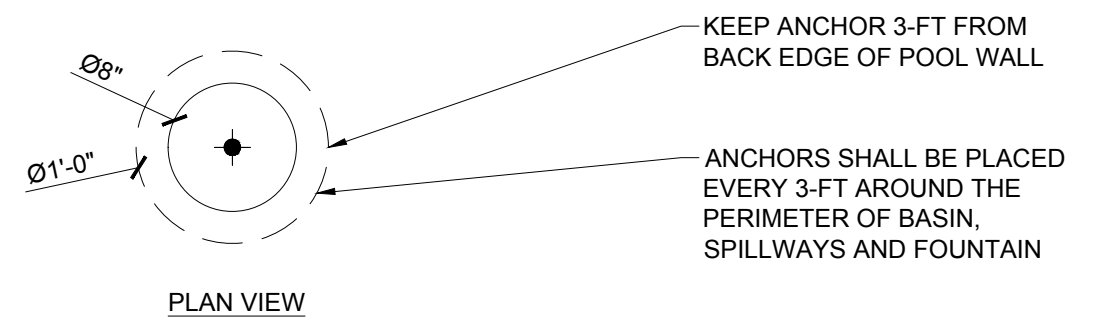
Drawing Title:

BASIN COVER ALT #2

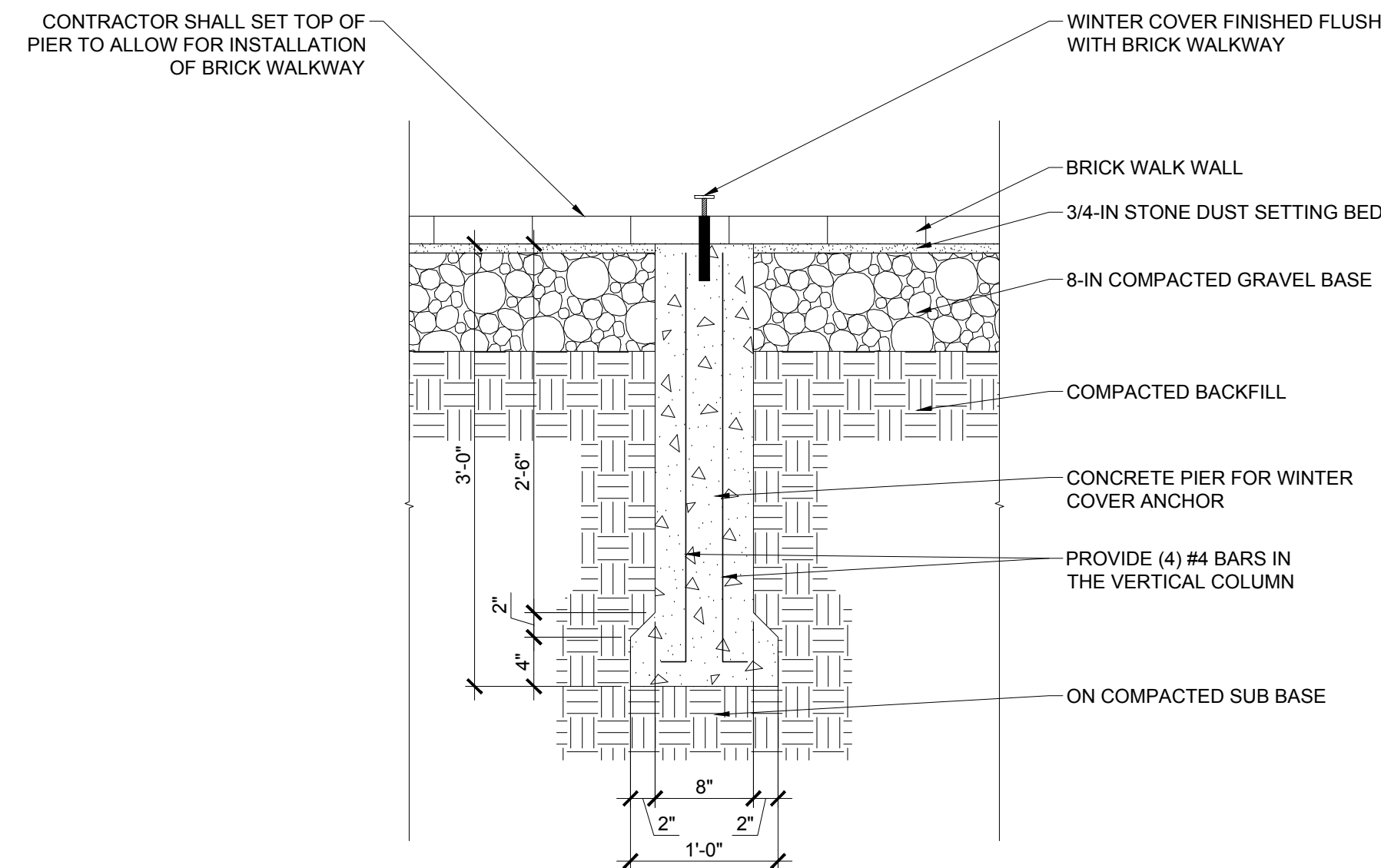
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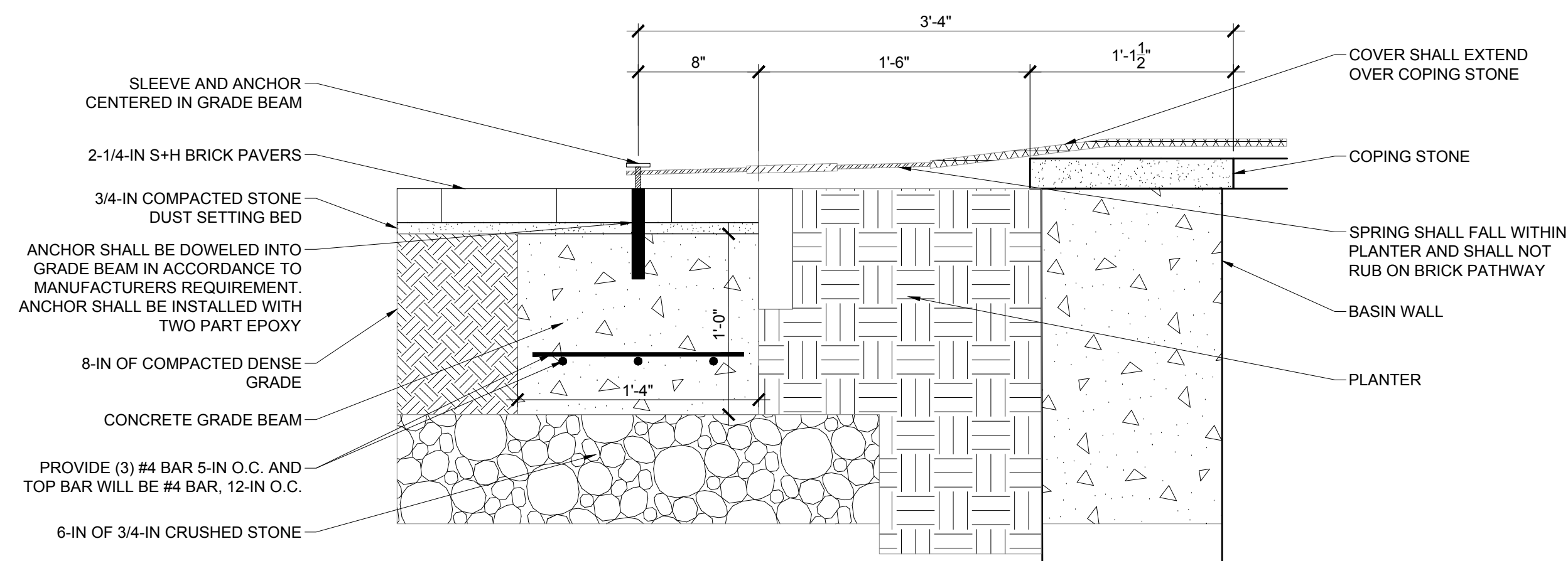


- NOTES:
1. PROVIDE A SPRING TENSION COVER THAT MEETS ASTM F-1346-91.
 2. COVER SHALL BE CONSTRUCTED OF MESH, AND BE UV RESISTANT.
 3. COVER SHALL BE A PERMEABLE SURFACE THAT DOES ALLOW WATER TO DRAIN THROUGH.
 4. ANCHORS SHALL BE INSTALLED 40-IN FROM EDGE OF INSIDE BASIN WALL AND EVERY 5-FT ON CENTER.
 5. SHALL HAVE ANCHORS THAT CAN BE THREADED UP AND SCREWED DOWN.
 6. NO ANCHORING SHALL OCCUR IN THE SPILL WAY.

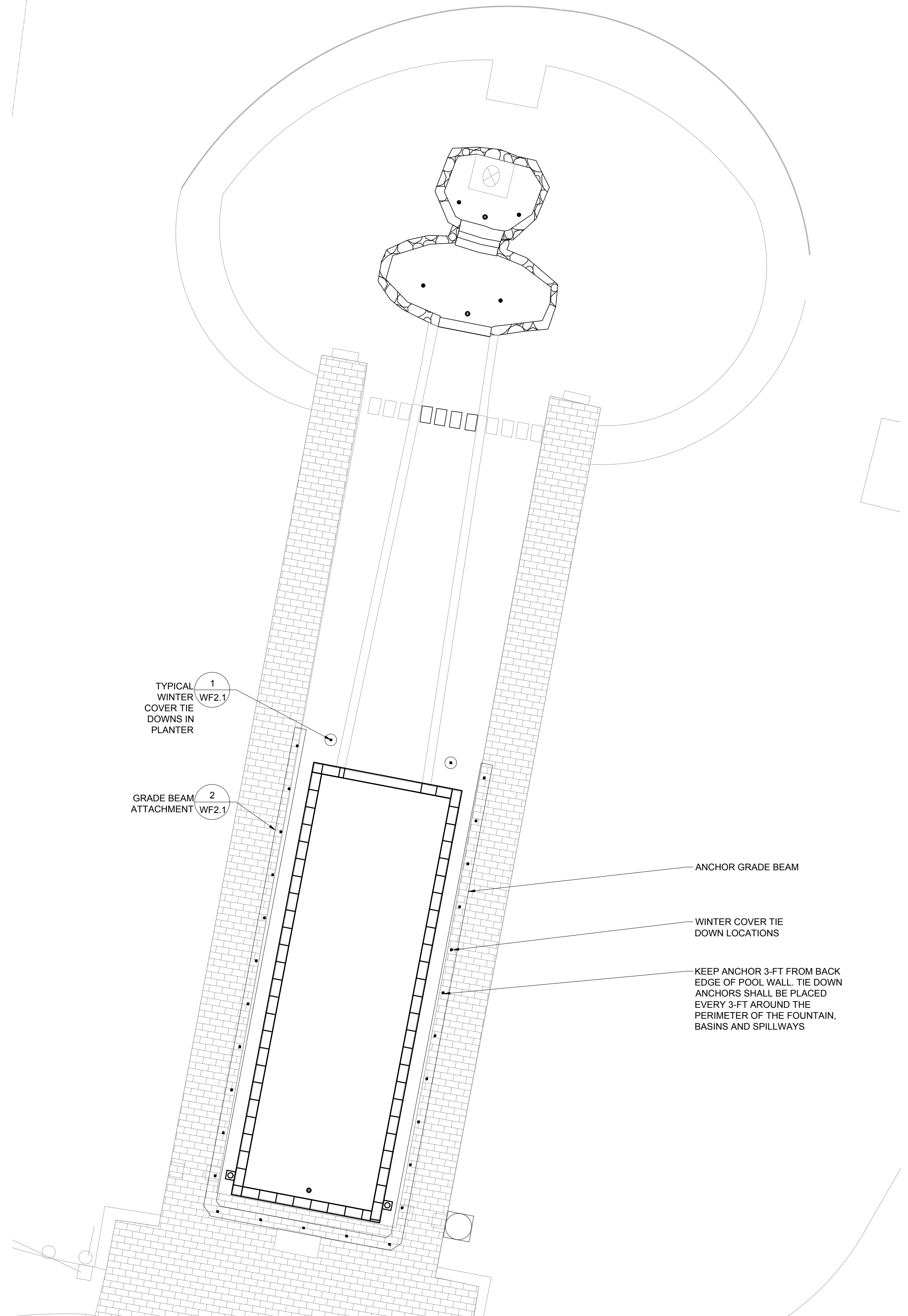


1 TYPICAL WINTER COVER TIE DOWNS IN PLANTER (ALT #2)

SCALE: 1" = 1'-0"



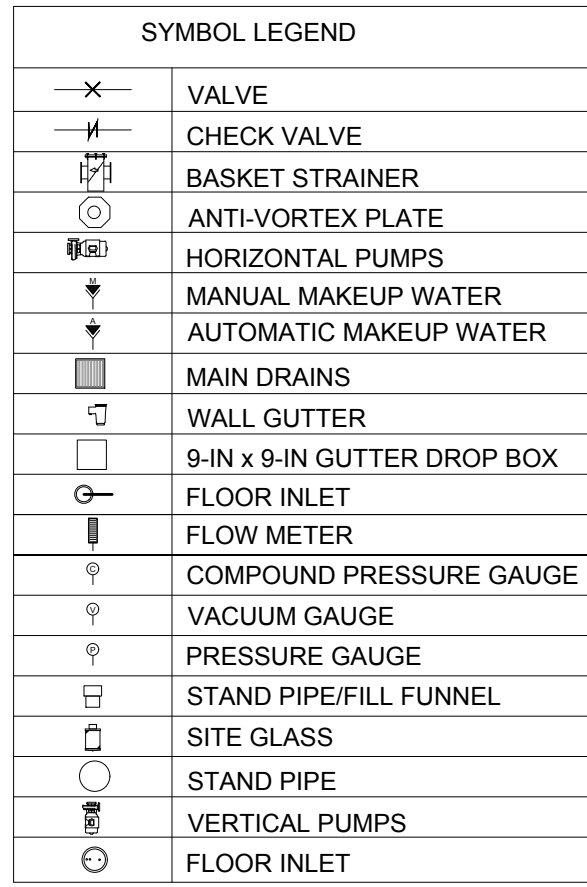
2 GRADE BEAM ATTACHMENT (ALT #2)
SCALE: 1-1/2" = 1'-0"



FOUNTAIN TIE DOWN LAYOUT (ALT #2)

SCALE: 1/8" = 1'-0"

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FOUNTAIN EQUIPMENT SCHEDULE				
PERIMETER OVERFLOW AND RETICULATION SYSTEM				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	MAIN DRAIN GRATE	CUSTOM	CUSTOM	24-INCH BY 12-INCH GRATE, 96 SQUARE INCHES OPEN AREA, GRATING TO MATCH EXISTING
2	SKIMMER	HAYWARD	SP1096	NSF APPROVED SKIMMER, 1-1/2-INCH SLIP, FLAP WEIR, GRATING COVER TO MATCH EXISTING. PROVIDE EXTRA BASKETS.
4	FLOOR RETURN FITTINGS	PEM	6092-4-6215	FLOOR RETURN FITTING WITH TOP PLATE
1	WINTER COVER	LOOP LOC	CUSTOM	CUSTOM WINTER COVER ALT # 2
3	DRAIN	PEM	6092-4-6212	FLOOR DRAIN WITH PUDDLE FLANGE
3	DRAIN PLUGS	PEM	622-01	DRAIN PLUG

FILTER AREA MISCELLANEOUS EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
4	PRESSURE GAUGE	WEKSLER	UA25B4L	2-1/2-INCH DIA. FACE, 0-60 PSI
2	COMPOUND GAUGE	WEKSLER	UA25K4L	2-1/2-INCH DIA. FACE, 0-30 INCHES HG, 0-60 PSI
3	FLOW METER	BLUE WHITE	F-1000	BATTERY OPERATED PADDLE WHEEL FLOW METER. INSTALL ON BOOSTER. FILTER AND UV LINES.
1	WATER LEVEL CONTROLLER	NEPTUNE BENSON	WLC-200	WATER LEVEL SENSOR ONLY WITH STAINLESS STEEL HARDWARE, WIRE TO CONTROLLER. PROVIDE SLOW CLOSE SOLENOID VALVE.
1	BACKFLOW	FEBCO	ES-F-LF825Y	LEAD FREE REDUCED PRESSURE ZONE ASSEMBLY

HEATING SYSTEM EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	MECHANICAL ROOM HEATER	DAYTON	2YU58	ELECTRIC UNIT HEATER, 208VAC, 2.2/3.0 kW, 1 PHASE

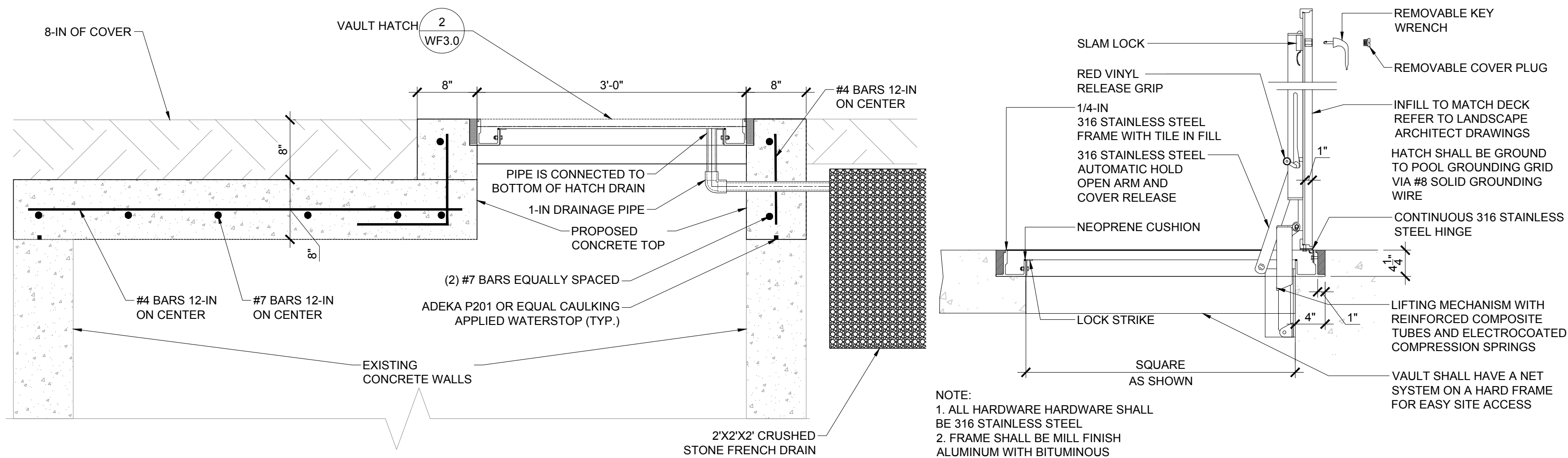
FILTRATION EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	BALANCE TANK	CUSTOM	CUSTOM	CONCRETE COLLECTOR TANK CUSTOM ORDER WITH PIPE SIZE AND LOCATION PER DETAIL. PROVIDE MINIMUM OF 150 GALLONS.
1	FILTER PUMP	PENTAIR	011513	WF4- 1 HP SELF-PRIMING WITH INTEGRAL STRAINER, 50 GPM AT 70 TDH, 208 VOLT, 3 PHASE, PROVIDE SPARE BASKET
1	BOOSTER PUMP	PENTAIR	011514	WF6- 1-1/2 HP SELF-PRIMING WITH INTEGRAL STRAINER, 90 GPM AT 55 TDH, 208 VOLT, 3 PHASE, PROVIDE SPARE BASKET
1	FILTER	HARMSCO	BF-336	BETTERFILTERS STAINLESS STEEL CARTRIDGE FILTER, PROVIDE EXTRA SET OF CARTIDGE
1	VFD	AC TECH	M1215E	1-1/2 HP, 3 PHASE, 208 VOLT NEMA 4X
1	VFD	AC TECH	M1210E	1 HP, 3 PHASE, 208 VOLT, NEMA 4X

CHEMICAL EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	UV/OZONE	DEL OZONE	AOP 50	NEMS 3 CABINET- ULTRA VIOLET DISINFECTION WITH OZONE TREATMENT 1 PHASE, 240V.

MISCELLANEOUS EQUIPMENT				
QTY	ITEM	MANUFACTURER	CAT NO.	DESCRIPTION
1	EXHAUST FAN	GREENHECK	CSP-A250	EXHAUST HAH CABINET. 200 CFS. 0.5 ESP. 120 VOLT/1 PHASE/ 60 HERTZ. PROVIDE REVERSE ACTING THERMOSTAT. ADD NEW HEADER. CONNECT DISCHARGE OF FAN TO 8-IN. SCHEDULE 80 EXHAUST PIPE. COORDINATE LOCATION WITHIN VAULT WITH FOUNTAIN EQUIPMENT.
1	SUMP PUMP	ZOELLER	M53	3/10 HP. 120 VOLT. SUBMERSIBLE SUMP PUMP. VERTICAL SWITCH TYPE. POLYPROPYLENE MATERIAL.

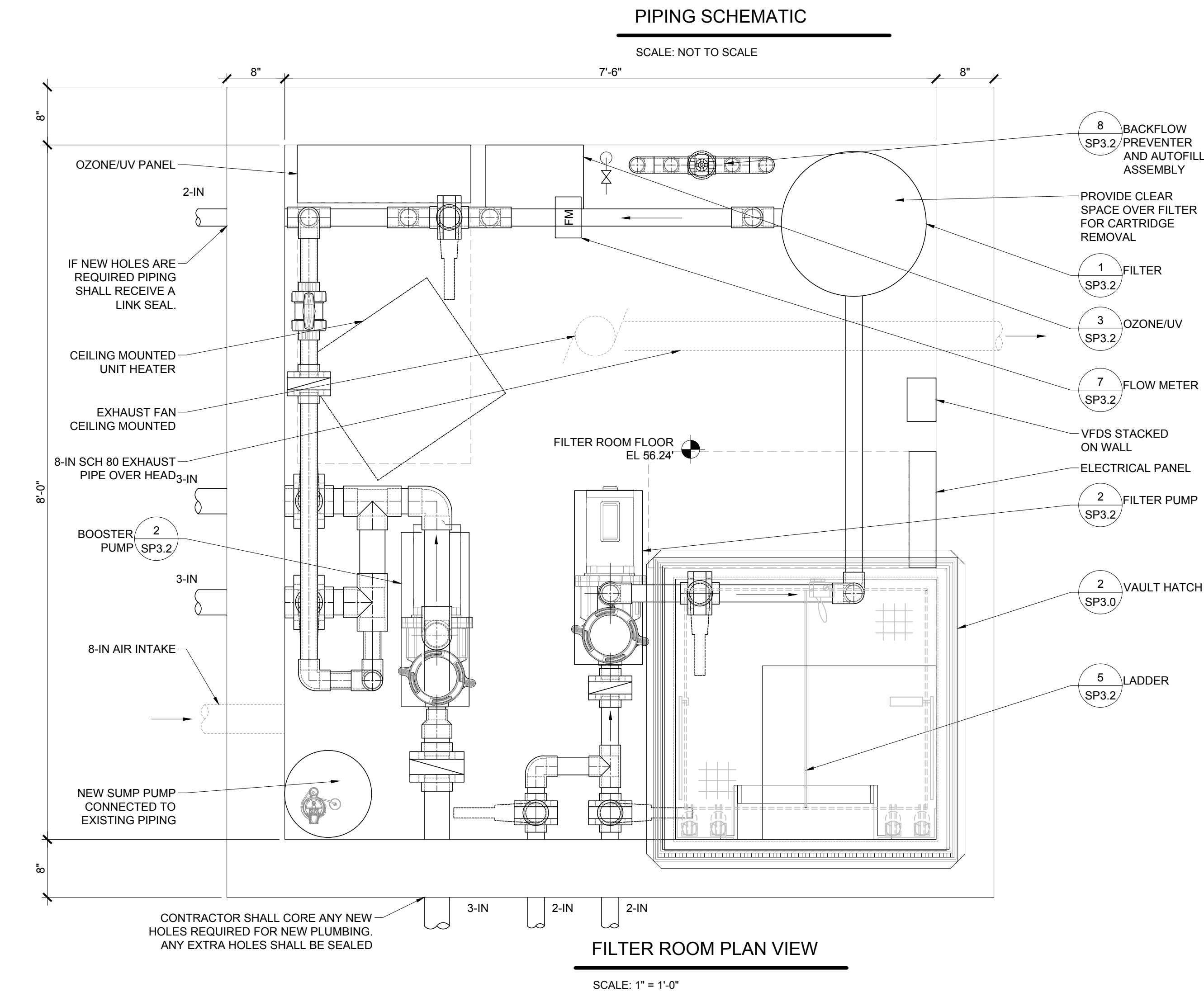
FOUNTAIN DATA CHART	
DESCRIPTION	AMOUNT/RATE
TOTAL WHIRLPOOL VOLUME - (GALS)	6,450 GALS
WHIRLPOOL TURNOVER (T.O.R.)	2.15 HRS. AT 50 GPM
FLOW RATE - FILTER	50 GPM
FLOW RATE - BOOSTER	90 GPM
TOTAL COMBINED FLOW RATE	140 GPM
FILTER AREA	336 S.F.
APPLICATION RATE	0.15 GPM/S.F.

- NOTES:**
1. PRIOR TO INSTALLATION OF NEW EQUIPMENT CONTRACTOR SHALL CLEAN THE INSIDE OF EXISTING MECHANICAL ROOM.
 2. CONTRACTOR SHALL MAINTAIN THE EXISTING INTEGRITY OF THE WALLS, STAIRS AND FLOOR.
 3. ANY DAMAGE DONE TO THE MECHANICAL ROOM DURING CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



1 PROPOSED VAULT TOP
SCALE: 1" = 1'-0"

2 PROPOSED VAULT HATCH
SCALE: 1" = 1'-0"



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Project:

**ARLINGTON MENOTOMY
FOUNTAIN**



**WINFIELD ROBBINS
MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA**

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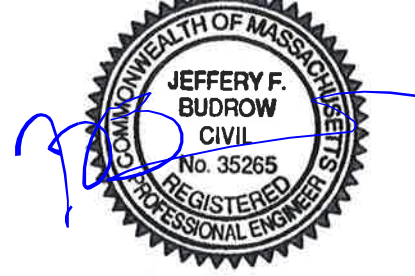
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Date: 03/02/2018

Scale: AS NOTED

Drawn By:

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Checked By:

Approved By: JFB

Drawing Title:

FILTRATION AND MECHANICAL SYSTEM

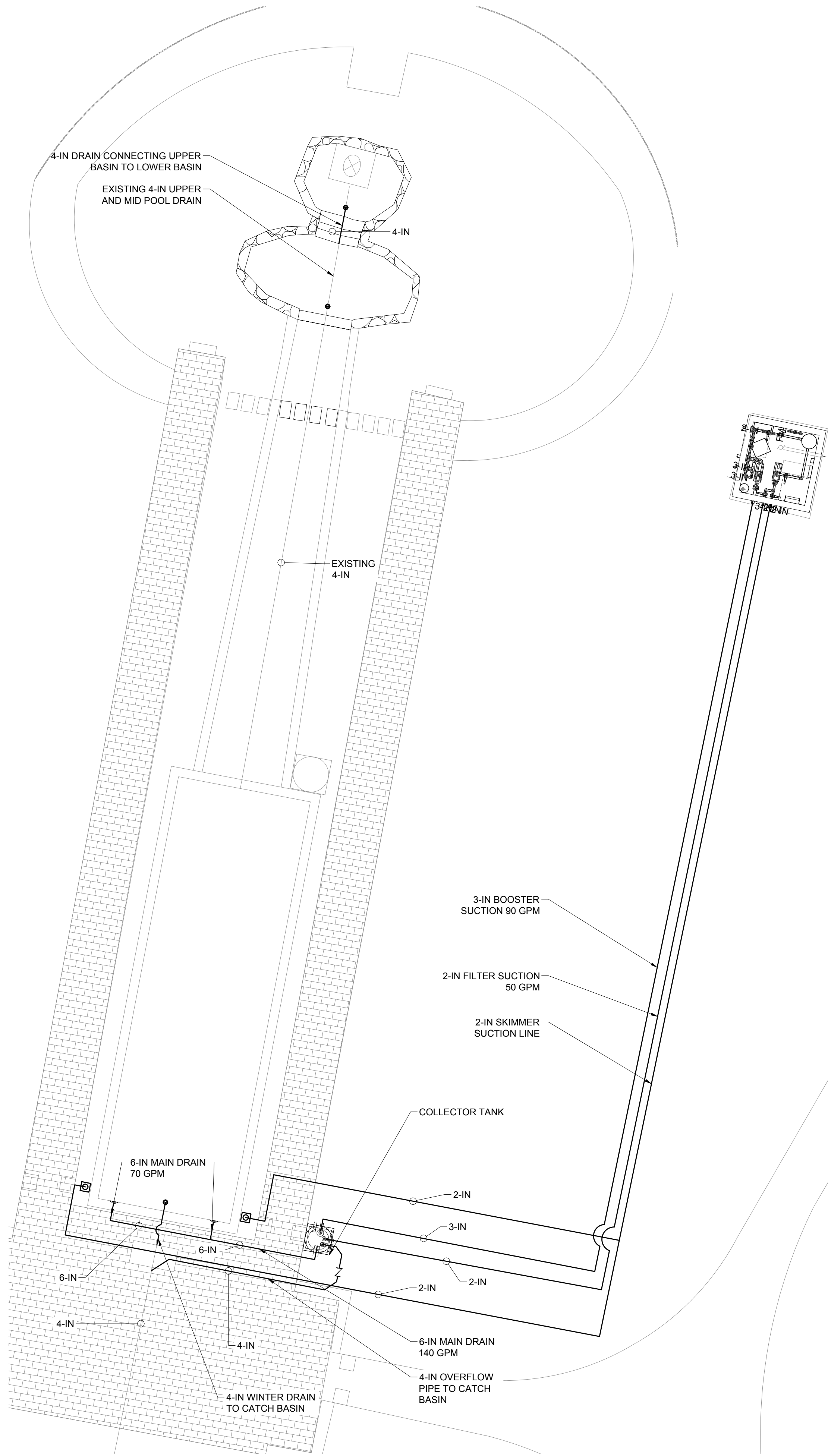
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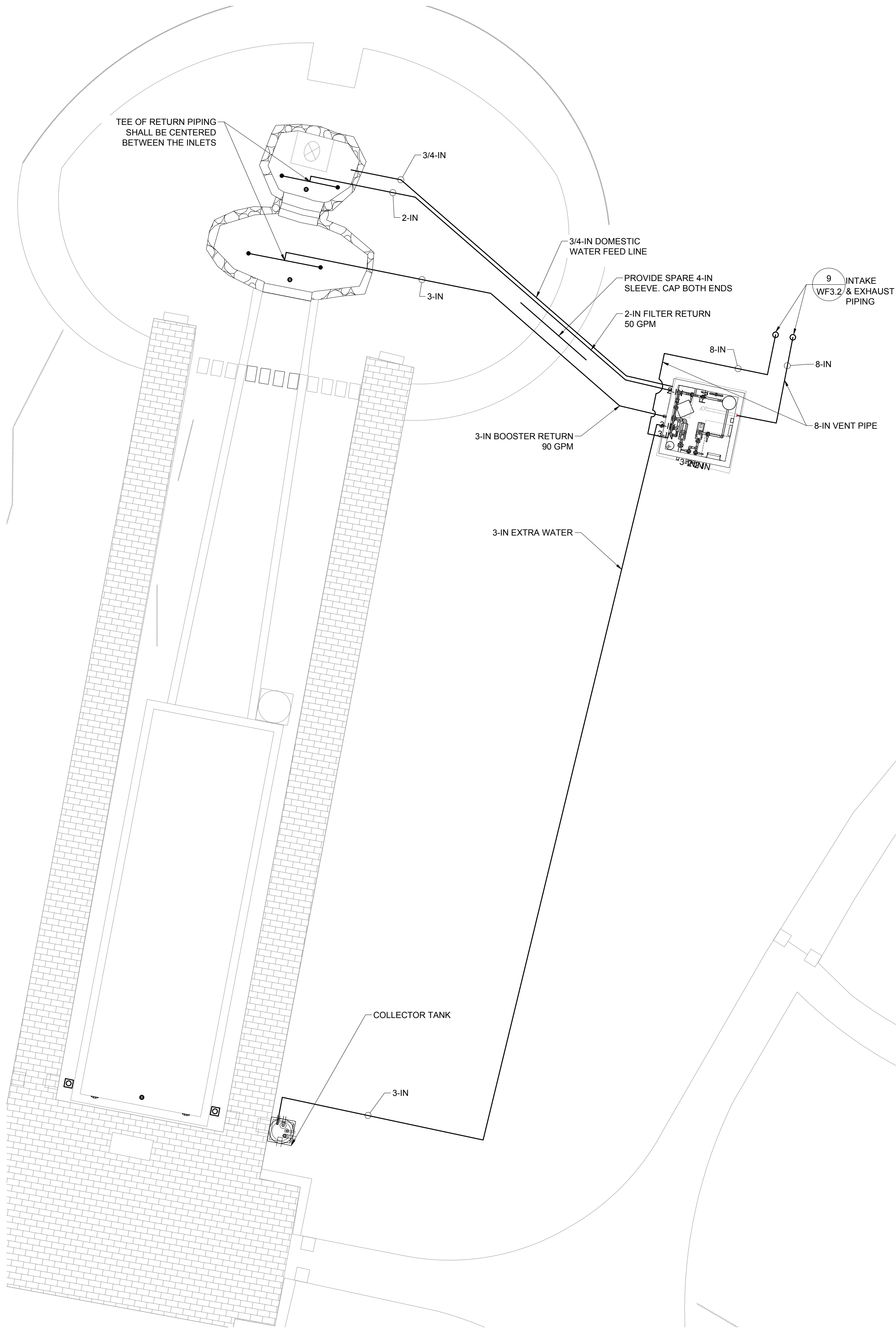
NOTE:

1. CONTRACTOR SHALL CHOOSE A ROUTE THAT IS THE LEAST INVASIVE TO EXISTING TREE ROOTS IN ORDER TO INSTALL PIPING, AND MAY REQUIRE HAND TRENCHING IN CERTAIN AREAS. ROUTING OF PIPING SHALL BE PRE-APPROVED BY THE HISTORICAL COMMISSION.
2. NO TRENCH SHALL COME WITHIN 5-FT OF ANY TREE LARGER THAN 12-IN DIAMETER.
3. CONTRACTOR SHALL TEST, AND LOCATE ALL SPRINKLER LINES AND HEADS PRIOR TO COMMENCEMENT OF DEMOLITION AND EXCAVATION.
4. IN LAYDOWN AREAS AND CONSTRUCTION AREAS FOUND AROUND THE FOUNTAIN, CONTRACTOR SHALL LOCATE AND AVOID IRRIGATION SPRINKLERS, LINES AND CONTROLS AT ALL COSTS. ANY DAMAGES TO THE SPRINKLER SYSTEM SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO OWNER.
5. CONTRACTOR SHALL ALSO LOCATE IRRIGATION IN THE PLANTERS FOUND ALONG THE EDGES OF THE BASIN. CONTRACTOR SHALL REMOVE AND REPLACE ALL DAMAGED CONNECTIONS ENCOUNTERED.



FOUNTAIN SITE PIPING SUCTION/GRAVITY

SCALE: 1/8" = 1'-0"



FOUNTAIN SITE PIPING RETURN

SCALE: 1/8" = 1'-0"

Project:

**ARLINGTON MENOTOMY
FOUNTAIN**



**WINFIELD ROBBINS
MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA**

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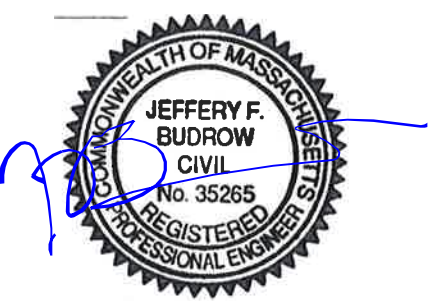
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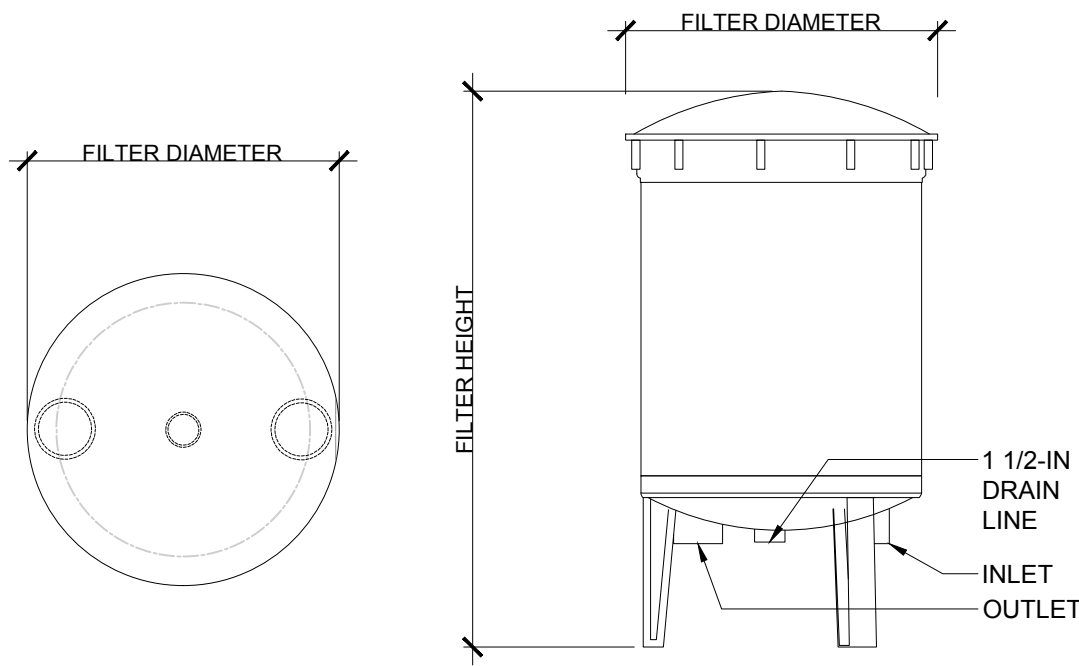
Approved By: JFB

Drawing Title:

SITE PIPING

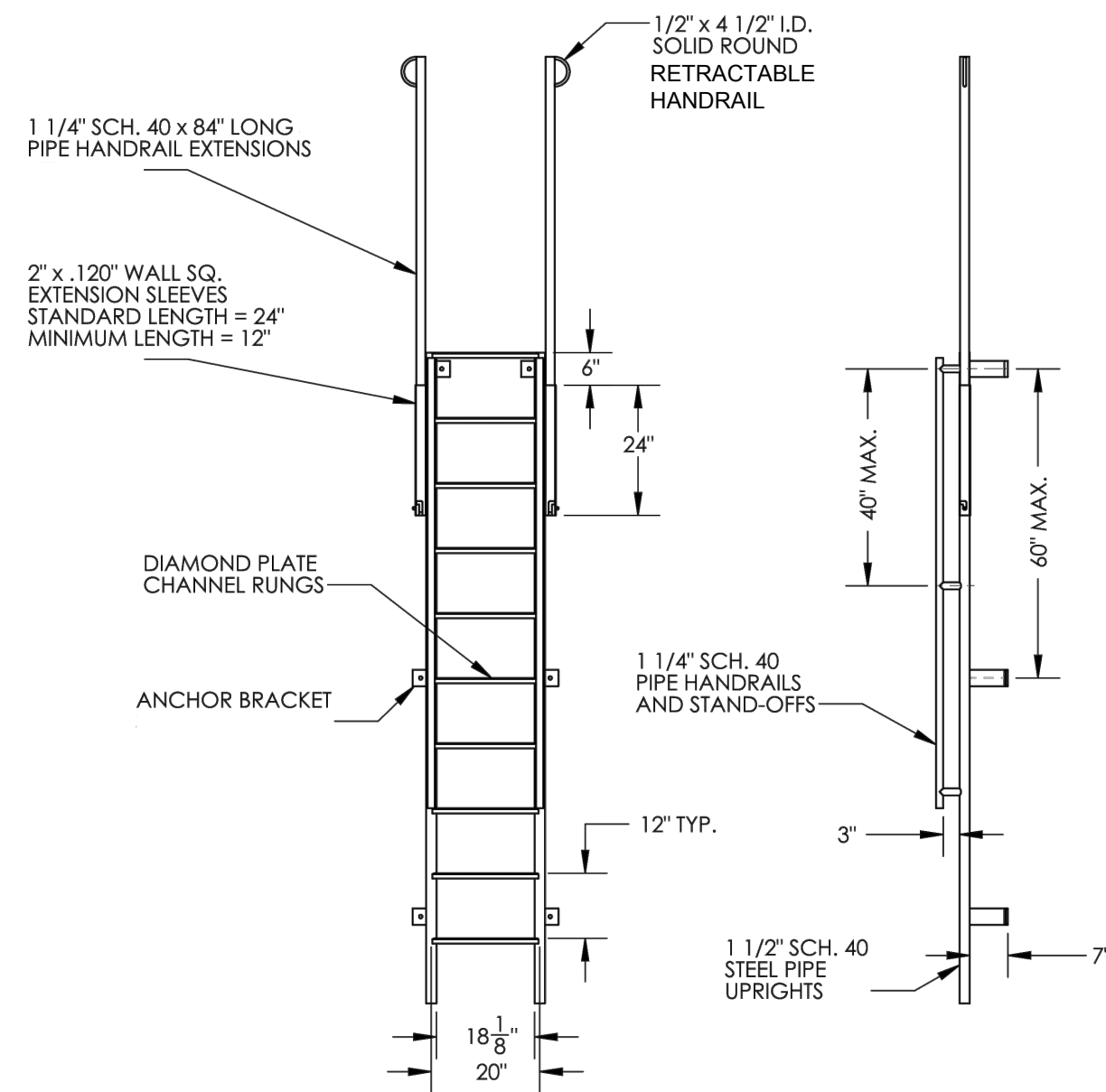
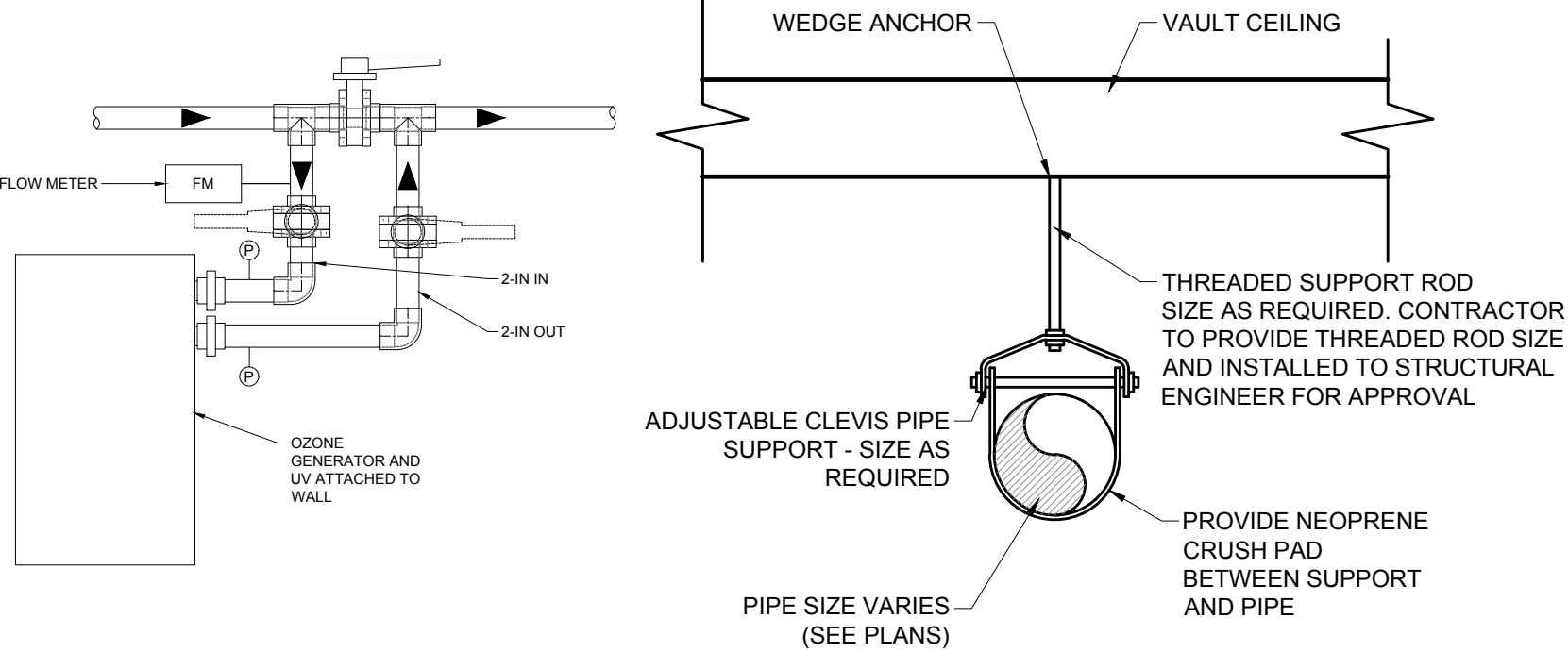
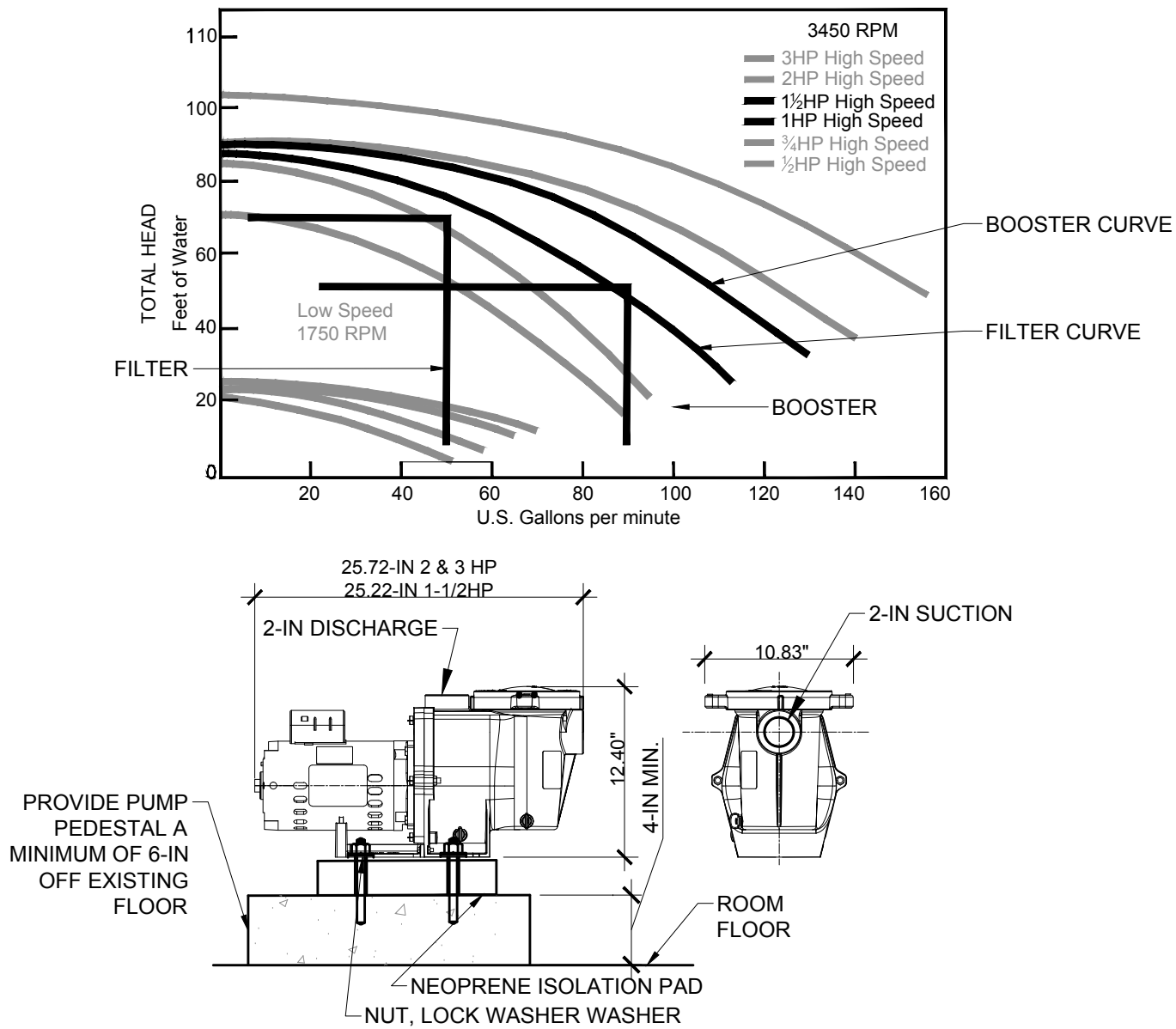
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WF3.1



HARMSCO FILTRATION PRODUCTS						
FILTER MODEL	FILTER TYPE	FILTER AREA	NUMBER OF CARTRIDGES	FILTER HEIGHT	FILTER DIAMETER	INLET OUTLET
BF-336	CARTRIDGE	336 SQ. FT.	66	52-INCH	18-INCH	3-IN 3-IN

Performance Curves



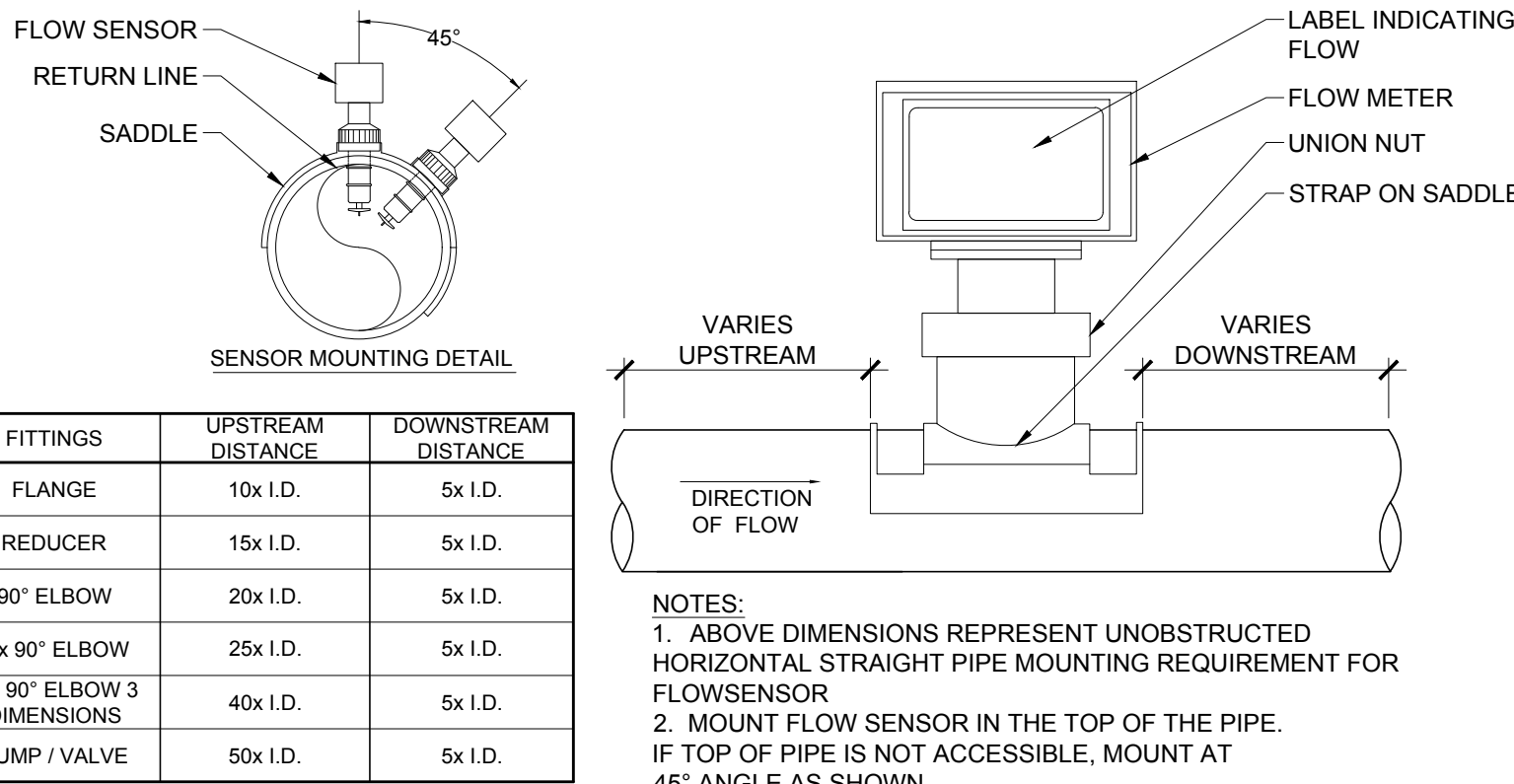
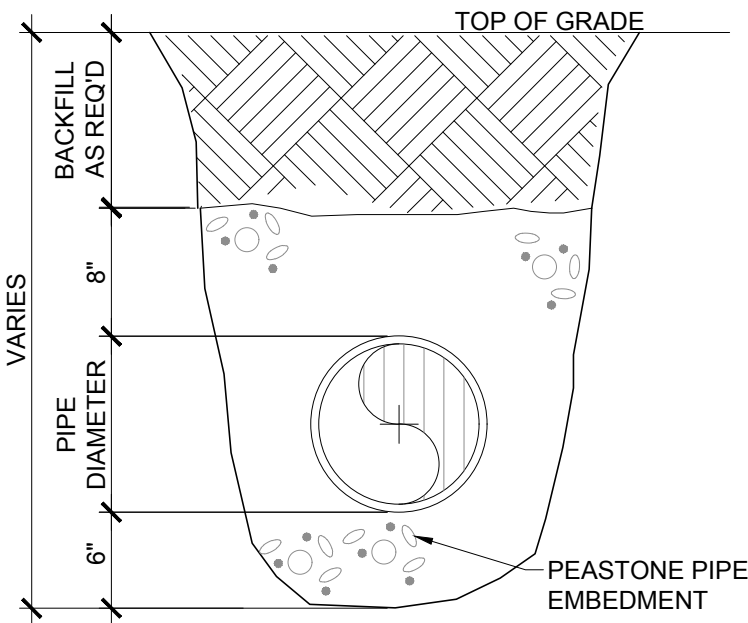
1 FILTER
SCALE: 3/4" = 1'-0"

2 FILTER AND BOOSTER PUMP
SCALE: NOT TO SCALE

3 OZONE/UV
SCALE: NOT TO SCALE

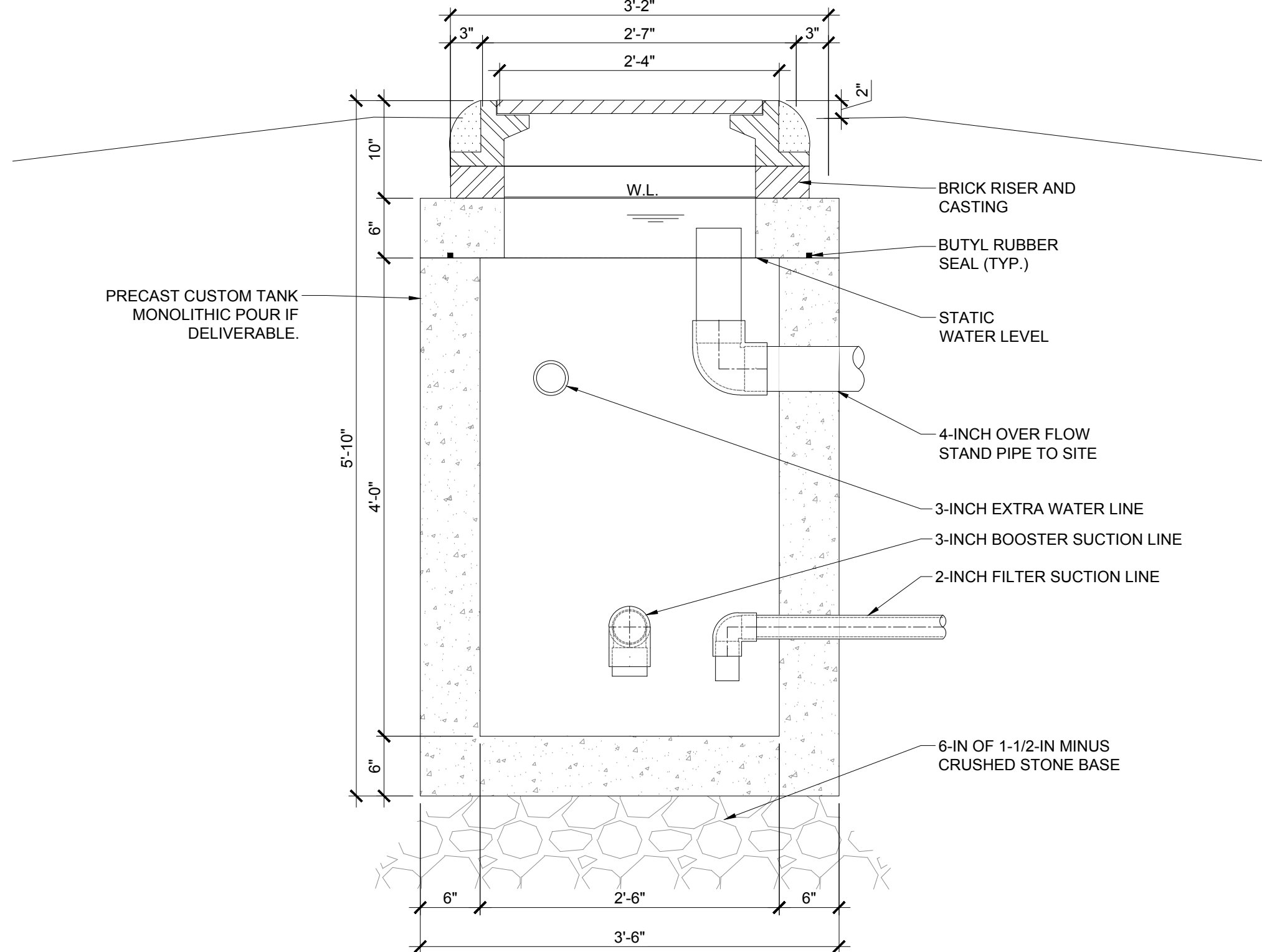
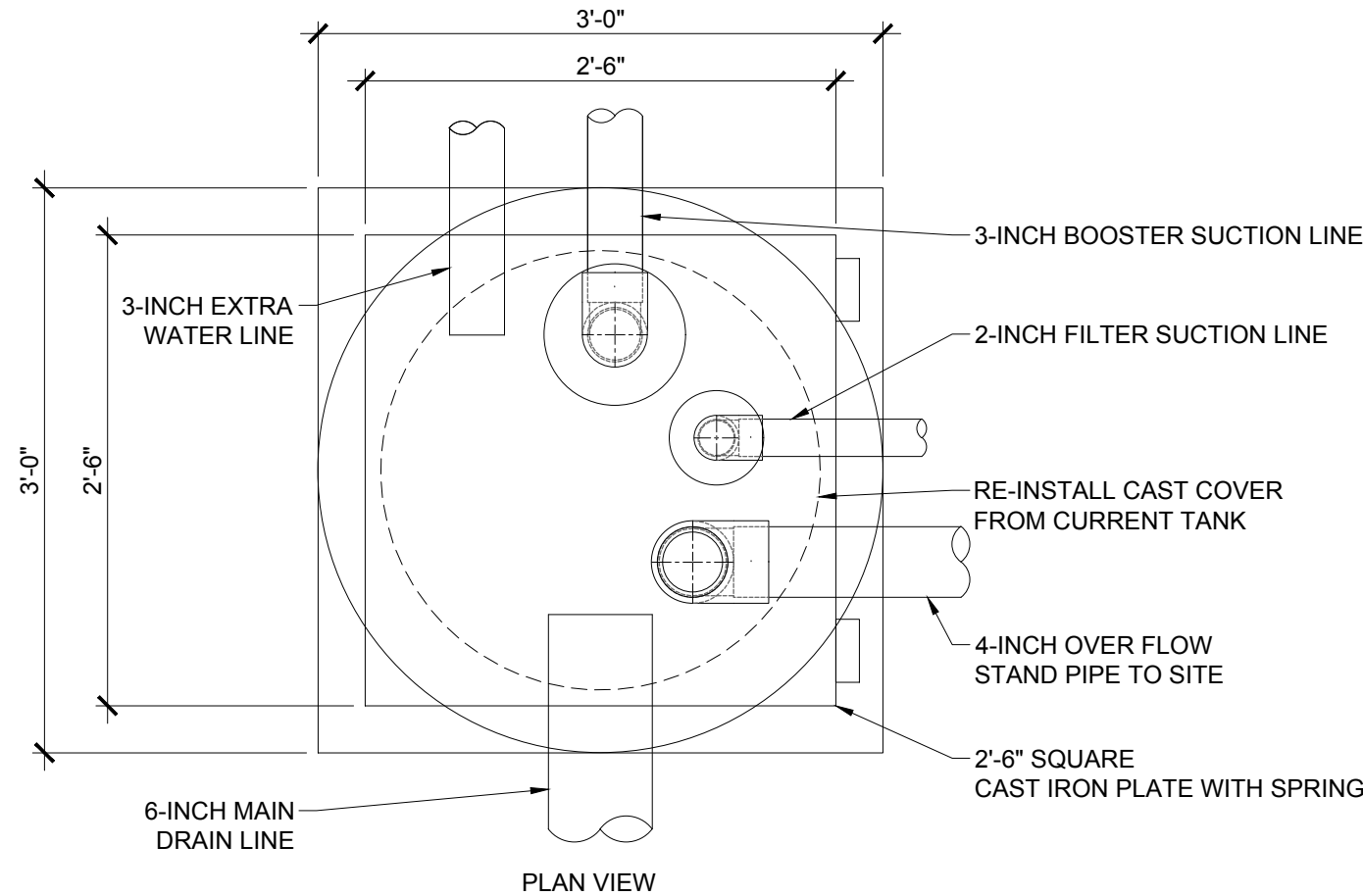
4 PIPE CEILING SUPPORT
SCALE: NOT TO SCALE

5 LADDER
SCALE: NOT TO SCALE



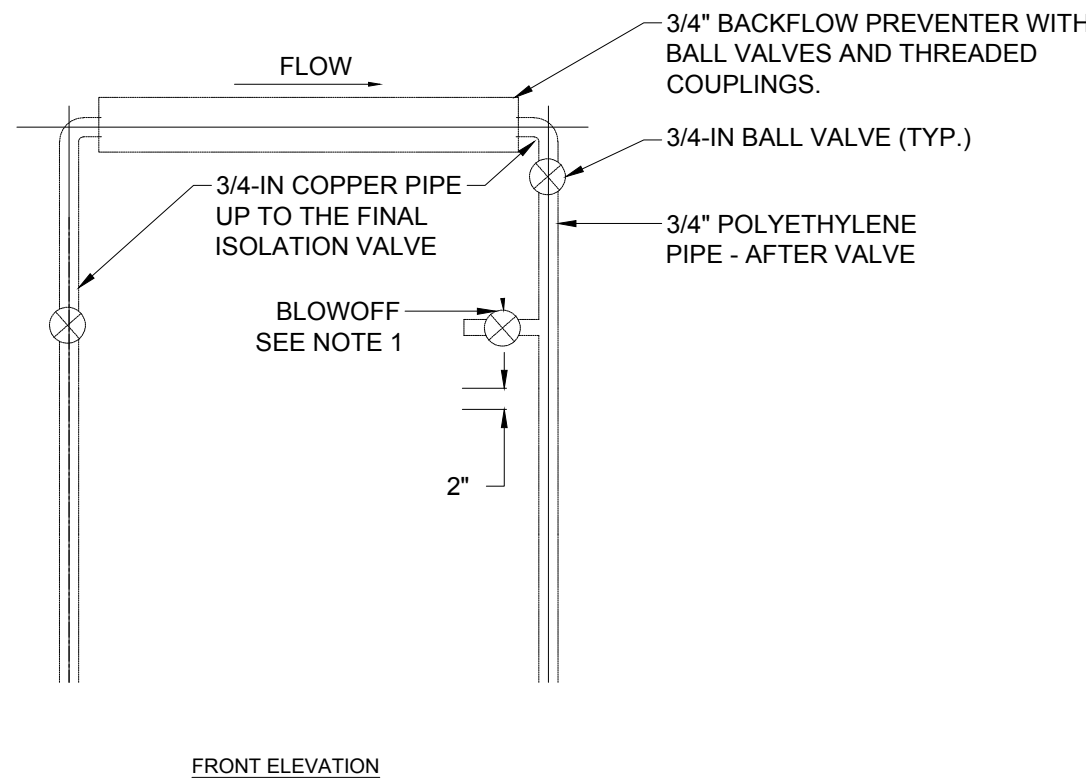
FITTINGS	UPSTREAM DISTANCE	DOWNSTREAM DISTANCE
FLANGE	10x I.D.	5x I.D.
REDUCER	15x I.D.	5x I.D.
90° ELBOW	20x I.D.	5x I.D.
2 x 90° ELBOW	25x I.D.	5x I.D.
2 x 90° ELBOW 3 DIMENSIONS	40x I.D.	5x I.D.
PUMP / VALVE	50x I.D.	5x I.D.

NOTES:
1. ABOVE DIMENSIONS REPRESENT UNOBSTRUCTED HORIZONTAL STRAIGHT PIPE MOUNTING REQUIREMENT FOR FLOWSSENSOR
2. MOUNT FLOW SENSOR IN THE TOP OF THE PIPE. IF TOP OF PIPE IS NOT ACCESSIBLE, MOUNT AT 45° ANGLE AS SHOWN



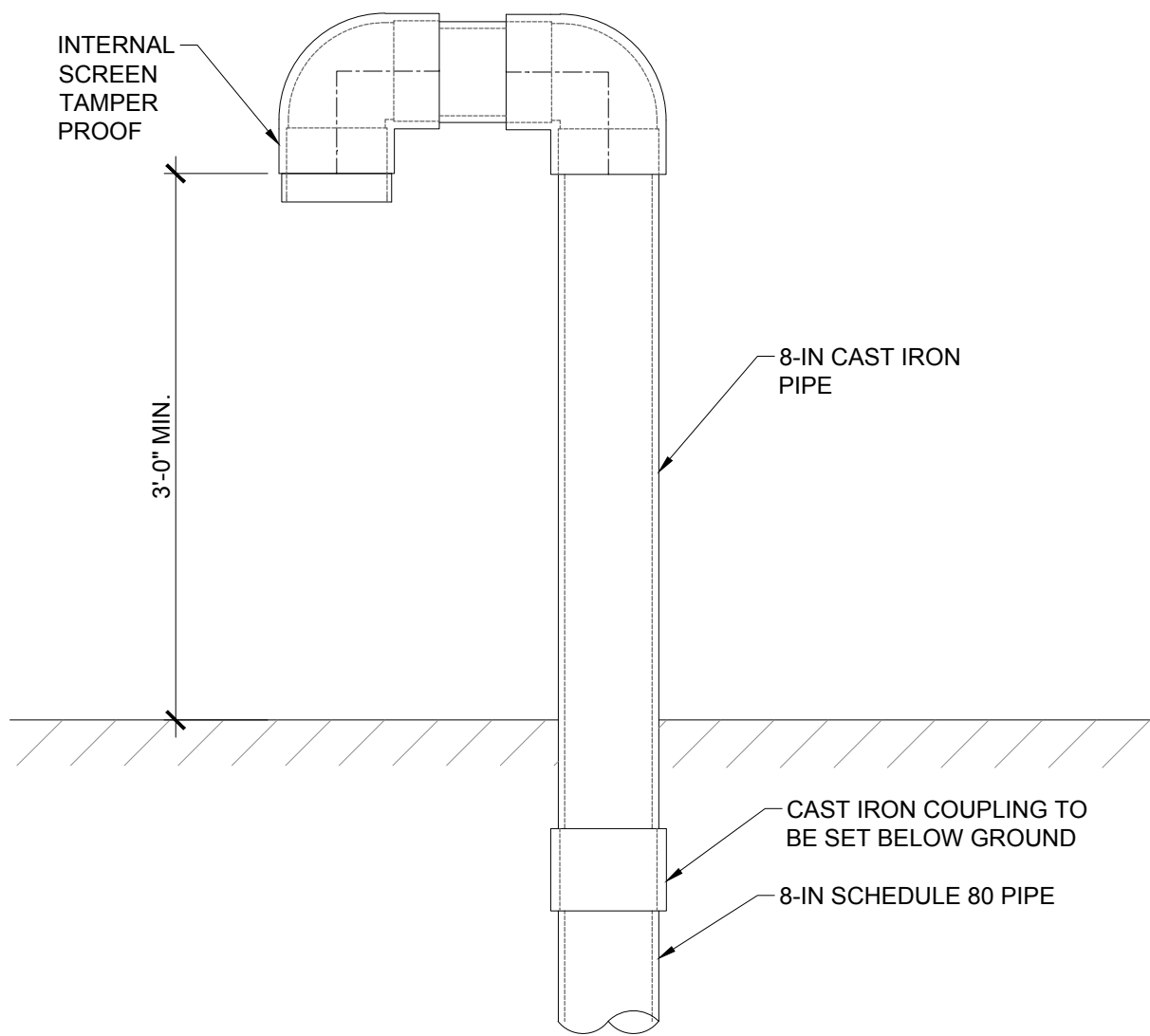
6 BURIED PIPE
SCALE: NOT TO SCALE

- NOTE:
1. INSTALL A BRASS BLOWOFF FITTING AND VALVE ON THE OUTFLOW SIDE OF THE BACKFLOW PREVENTION DEVICE TO WINTERIZE THE SYSTEM AS REQUIRED.
 2. THE BACKFLOW PREVENTER & METER SHALL BE INSTALLED WITH UNIONS, HANGERS, SUPPORTS AND ALL OTHER APPROPRIATE FITTINGS, IN ORDER TO EASILY REMOVE THE DEVICE FOR SERVICE AND TO MEET ALL APPLICABLE PLUMBING CODES. 1 1/2" WATER METER TO BE SUPPLIED BY THE TOWN.
 3. CONFIRM LAYOUT AND ALIGNMENT REQUIREMENTS FOR ALL PIPING, FITTINGS, VALVES, METER, AND BACKFLOW PREVENTER WITH TOWN OF BROOKLINE PLUMBING INSPECTOR PRIOR TO INSTALLATION.



8 BACKFLOW PREVENTER
SCALE: NOT TO SCALE

7 FLOW METER
SCALE: NOT TO SCALE



9 INTAKE & EXHAUST PIPING AT FINISHED GRADE
SCALE: NOT TO SCALE

10 TANK
SCALE: 1" = 1'-0"

Project:
ARLINGTON MENOTOMY FOUNTAIN

WINFIELD ROBBINS MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA

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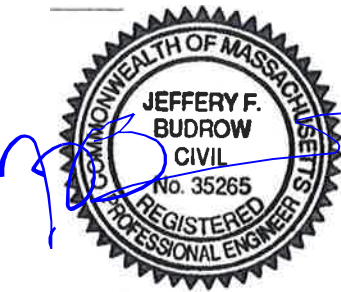
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Date: 03/02/2018
Scale: AS NOTED
Drawn By: KTE/SAA
Reviewed By: MPM
Checked By: TMS
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Drawing Title:

MECHANICAL DETAILS

Sheet Number:

WF3.2

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION, MOUNTING HEIGHTS, SIZE OF EQUIPMENT AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.

2. WORK SHALL CONFORM TO THE MASSACHUSETTS ELECTRICAL CODE, MASSACHUSETTS BUILDING CODE, NFPA AND REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

3. THE WORD "CONTRACTOR" AS USED IN THE "ELECTRICAL WORK" SHALL MEAN THE ELECTRICAL SUBCONTRACTOR.

4. CONTRACTOR SHALL PAY FOR ALL PERMITS, INSURANCE AND TESTS, AND SHALL PROVIDE LABOR AND MATERIAL TO COMPLETE THE ELECTRICAL WORK SHOWN.

5. EXCEPT AS OTHERWISE NOTED, THE ELECTRICAL WORK SHALL INCLUDE DEMOLITION, PANELBOARDS, CIRCUIT BREAKERS, FEEDERS, WIRING, RACEWAYS, LIGHTING FIXTURES, DEVICES, SAFETY SWITCHES AND CONNECTION NECESSARY TO OPERATE MOTORS AND OTHER EQUIPMENT.

6. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY LIGHTING AND POWER.

7. DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL KEEP HIS PORTION OF THE WORK NEAT, CLEAN AND ORDERLY.

8. ALL SYSTEMS SHALL BE TESTED FOR SHORT CIRCUIT AND GROUNDS PRIOR TO ENERGIZING AND ANY DEFECTS SHALL BE CORRECTED.

9. ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED AS PART OF THIS SECTION.

10. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR ELECTRICAL EQUIPMENT. WHERE SPECIFIED ELECTRICAL EQUIPMENT IS SUBSTITUTED, THE ELECTRICAL CONTRACTOR SHALL SUBMIT COMPLETE SPECIFICATIONS ON THE SUBSTITUTE AS WELL AS THE ITEM ORIGINALLY SPECIFIED.

11. MATERIALS SHALL BE SPECIFICATION GRADE AND UL LISTED.

12. WHERE MATERIAL IS CALLED OUT IN THE LEGEND BY MANUFACTURER, TYPE OR CATALOG NUMBER, SUCH DESIGNATIONS ARE TO ESTABLISH STANDARDS OR DESIRED QUALITY. ACCEPTANCE OR REJECTIONS OF PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER.

13. WORK SHALL BE COORDINATED WITH THAT OF OTHER TRADES TO ELIMINATE INTERFERENCES.

14. ELECTRICAL CONTRACTOR SHALL OBTAIN SHOP DRAWINGS/SPECIFICATIONS OF ALL EQUIPMENT FROM THE GENERAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLING ELECTRICAL EQUIPMENT FOR SAME. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL EQUIPMENT INSTALLED AND CONTRACT DOCUMENTS.

15. ELECTRICAL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF WHICH SYSTEM IS PUT INTO SERVICE.

16. WORK SHALL BE GROUNDED IN ACCORDANCE WITH CODE REQUIREMENTS. COMPLETE EQUIPMENT (INSULATED GREEN WIRE) GROUNDING SYSTEM SHALL BE INSTALLED.

17. WIRE SHALL BE TYPE "THHN-THWN" INSULATED FOR 600 VOLTS, MINIMUM SIZE #12 AWG COPPER UNLESS SPECIFICALLY NOTED OTHERWISE.

18. WIRING METHODS:

A. INTERIOR FEEDERS SHALL BE EMT CONDUIT.

B. EXTERIOR ABOVE GROUND SHALL BE RGS CONDUIT.

C. EXTERIOR UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 CONDUIT FOR CONCRETE ENCASE AND SCHEDULE 80 PVC FOR DIRECT BURIED. CONDUITS WITHIN THE VAULT SHALL BE SCHEDULE 40 PVC.

D. EQUIPMENT CONNECTIONS SHALL BE LIQUID TIGHT FLEXIBLE CONDUIT.

CONNECTORS FOR RIGID CONDUIT SHALL BE MADE WITH THREADED COUPLINGS. CONNECTORS FOR ELECTRIC METALLIC TUBING AND FLEXIBLE LIQUID TIGHT CONDUIT SHALL BE COMPRESSION TYPE WITH INSULATED THROATS. CONDUIT AND TUBING SHALL BE SUPPORTED ON GALVANIZED WALL BRACKETS. TRAPEZE HANGERS OR PIPE STRAPS SECURED BY MEANS OF TOGGLE BOLTS OR INSERTS IN WOOD CONSTRUCTION. FEEDERS SHALL BE ROUTED TIGHT TO THE UNDERSIDE OF THE BUILDING STRUCTURE. CONDUIT SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO MAIN BUILDING SUPPORTS.

19. BOXES SHALL BE GALVANIZED STEEL AND SHALL BE SIZED TO ACCOMMODATE THE EQUIPMENT OR APPARATUS TO BE INSTALLED. WHERE BOXES OF A STANDARD MAKE ARE NOT AVAILABLE, SPECIAL BOXES SHALL BE MANUFACTURED. FIXTURES SUPPORTED ON THE CEILING OR ON THE WALL SHALL HAVE SUITABLE FIXTURE SUPPORT FOR THE SPECIFIC FIXTURE.
20. PANELBOARDS SHALL BE DEAD FRONT, THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKER TYPE, DESIGNED FOR SURFACE MOUNTING AS INDICATED ON PLAN, AND HAVING CONNECTIONS TO 120/208 VOLT, 3 PHASE, 4 WIRE SERVICE. ALL BUS BARS SHALL BE COPPER. CABINETS SHALL BE MADE OF CODE GAUGE GALVANIZED SHEET STEEL, WITH A MINIMUM OF 4 INCH GUTTERS, DOOR IN DOOR CONSTRUCTION, LOCKED DOOR, AND FLUSH HINGES. TYPEWRITTEN INDEX SHALL BE MOUNTED ON DOOR INSIDE TRANSPARENT COVER INDICATING LOAD SERVED. PANELS SHALL INCLUDE SEPARATE EQUIPMENT GROUND BUS.

21. PANELBOARDS, DISCONNECT SWITCHES, AND CONTROLLERS SHALL HAVE NAMEPLATES OF BLACK LAMINATED PLASTIC WITH ENGRAVED WHITE LETTERS, SECURED WITH SELF-TAPPING SCREWS.

22. CONTRACTOR SHALL PHASE BALANCE PANELBOARDS IN THE FIELD. LOAD ON EACH PHASE SHALL BE BALANCED WITHIN 10% OF EACH OTHER.

23. WALL PLATES SHALL BE PROVIDED FOR EACH SWITCH AND RECEPTACLE. PROVIDE WALL PLATES WITH STAINLESS STEEL FINISH FOR ALL DEVICES IN FINISHED AREAS. FOR DEVICES IN UNFINISHED AREAS, PROVIDE CAST IRON OR ALLOY OF SUITABLE TYPE TO MATCH OUTLET BOXES SPECIFIED.

24. TOGGLE SWITCHES SHALL BE OF THE SINGLE POLE A.C. QUIET TOGGLE TYPE FOR MOUNTING IN A SINGLE-GANG SPACING. TOGGLE SWITCHES SHALL BE FULLY RATED 20 AMPERES AT 120/277 VOLT.

25. DUPLEX WALL RECEPTACLES SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE 20 AMPERE, 125 VOLT WITH METAL PLASTER EARS. RECEPTACLES SHALL BE NEMA STANDARD CONFIGURATION 5-20R.

26. FUSED OR UNFUSED SAFETY SWITCHES SHALL BE TOTALLY ENCLOSED, HEAVY DUTY TYPE. SWITCHES SHALL HAVE VOLTAGE, HORSEPOWER AND AMPERE RATING SUITABLE FOR THE APPLICATION. PROVIDE NUMBER OF POLES AS REQUIRED. SWITCHES LOCATED EXTERIOR TO THE BUILDING OR IN DAMP/WET LOCATIONS SHALL BE IN A NEMA 3R ENCLOSURE.

27. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE, AS MANUFACTURED BY BUSSMAN, RELIANCE OR APPROVED EQUAL.

28. FEEDER TAPS WILL NOT BE ALLOWED IN PANELBOARD GUTTERS.

29. CONDUIT RUNS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC ONLY; EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD.

30. CONTRACTOR SHALL CHECK EXISTING CONDITIONS TO DETERMINE EXACT EXTENT OF WORK TO BE PERFORMED PRIOR TO BIDDING. DIMENSIONS RELEVANT TO EXISTING WORK SHALL BE VERIFIED IN THE FIELD.

31. IN AREAS NOT AFFECTED BY THIS RENOVATION, THIS SUBCONTRACTOR SHALL MAINTAIN CONTINUITY OF ELECTRIC SERVICE.

32. WHERE CONNECTIONS ARE MADE IN EXISTING PANELS, THE PANEL INDEX SHALL BE REVISED TO INDICATE THE NEW LOADS SERVED. NEW CIRCUIT BREAKERS ADDED TO EXISTING PANELS SHALL BE THE SAME FRAME SIZE, VOLTAGE RATING AND INTERRUPTING CAPACITY AS EXISTING PANEL AND CIRCUIT BREAKERS.

33. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED POWER SUPPLIES, APPURTENANCES, FINAL CONNECTIONS, TESTING AND WORK REQUIRED FOR ADDITIONS TO THE EXISTING FIRE ALARM SYSTEM. PAY ALL COSTS ARISING THERE FROM, FOR A COMPLETE AND OPERATIONAL SYSTEM.

34. ELECTRICAL SHUTDOWN SHALL BE AT A TIME AND DATE APPROVED BY THE OWNER.

35. PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.

36. ALL NEW EMPTY &/OR FUTURE CONDUITS SHALL BE INSTALLED WITH PULL STRING.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AC	ALTERNATING CURRENT
A	AMPERE
ATC	AUTOMATIC TEMPERATURE CONTROLS
ATS	AUTOMATIC TRANSFER SWITCH
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CB	CIRCUIT BREAKER
EC	ELECTRICAL CONTRACTOR
FL	FLOOR
FLA	FULL LOAD AMPERE
HP	HORSEPOWER
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
PNL	PANELBOARD
PH	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
V	VOLTS
W	WATTS OR WIRE
WP	WEATHERPROOF
4WSN	4-WIRE SOLID NEUTRAL
VFD	VARIABLE FREQUENCY DRIVE
X	EXISTING TO BE REMOVED

RECEPTACLE ABBREVIATIONS

GFI	GROUND FAULT CIRCUIT INTERRUPTER, PERSONAL PROTECTION
WP	WEATHERPROOF

ELECTRICAL LEGEND

RACEWAY AND WIRING

1,3 LP1B

HOMERUN TO PANELBOARD. NUMBER OF TICKS INDICATES NUMBER OF #12 AWG CONDUCTORS CONTAINED IN RACEWAY. TWO (2) #12 AWG SHALL NOT BE INDICATED BY TICKS. NUMERALS 1 AND 3 INDICATE CIRCUITS IN PANELBOARD. RACEWAYS LARGER THAN 1/2" AND CONDUCTORS LARGER THAN #12 AWG SHALL BE INDICATED ON THE DRAWINGS. PROVIDE AN INSULATED GREEN GROUND WIRE IN ALL RACEWAYS MINIMUM SIZE TO BE #12AWG.

RACEWAY UNDERGROUND

DIRECT HARD WIRED CONNECTION

LIGHTING FIXTURES

1 X 4 LINEAR SURFACE MOUNTED LED FIXTURE

WALL MOUNTED FIXTURE. SEE NOMENCLATURE ABOVE FOR INCANDESCENT FIXTURE.

LIGHTING CONTROL SWITCHES

(MOUNT 4'-0" AFF UNLESS NOTED OTHERWISE.)

LIGHT SWITCH

RECEPTACLES

(MOUNT 18" AFF TO CENTER LINE UNLESS NOTED OTHERWISE)

DUPLEX GROUND FAULT CIRCUIT INTERRUPTER CONVENIENCE OUTLET RATED 20A, 125V, U-SLOT GROUNDED TYPE MOUNTED 18" ABOVE FINISHED FLOOR TO CENTER LINE. ALL OTHER MOUNTING HEIGHTS SHALL BE AS NOTED ADJACENT TO THE SYMBOL. REFER TO RECEPTACLE ABBREVIATIONS FOR SPECIAL PURPOSE RECEPTACLES.WP INDICATES WEATHERPROOF ENCLOSURE. 'GFI' INDICATES GROUND FAULT INTERRUPTOR.

POWER DISTRIBUTION EQUIPMENT

PANELBOARD-SURFACE MOUNTED

FUSIBLE SAFETY SWITCH - RATING AND TYPE AS NOTED ON THE DRAWING. (30 AMP, 20 AMP FUSE, 3 POLE)

MOTOR, NUMERAL DENOTES HORSE POWER

GROUND - SYSTEM AND/OR EQUIPMENT

MISCELLANEOUS POWER

JUNCTION BOX WITH BLANK COVERPLATE, SIZE AS REQUIRED BY N.E.C.

HANDHOLE

LIMIT SWITCH

FLOW METER

SOLENOID VALVE

Project:

ARLINGTON MENOTOMY
FOUNTAIN



WINFIELD ROBBINS
MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA

Weston & Sampson

85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

Consultants:

Revisions:

Rev	Date	Description

Seal:



CONSTRUCTION
DOCUMENTS

Date: 03/02/2018

Scale: AS SHOWN

Drawn By: ICA

Reviewed By: RFM

Checked By: RFM

Approved By: RFM

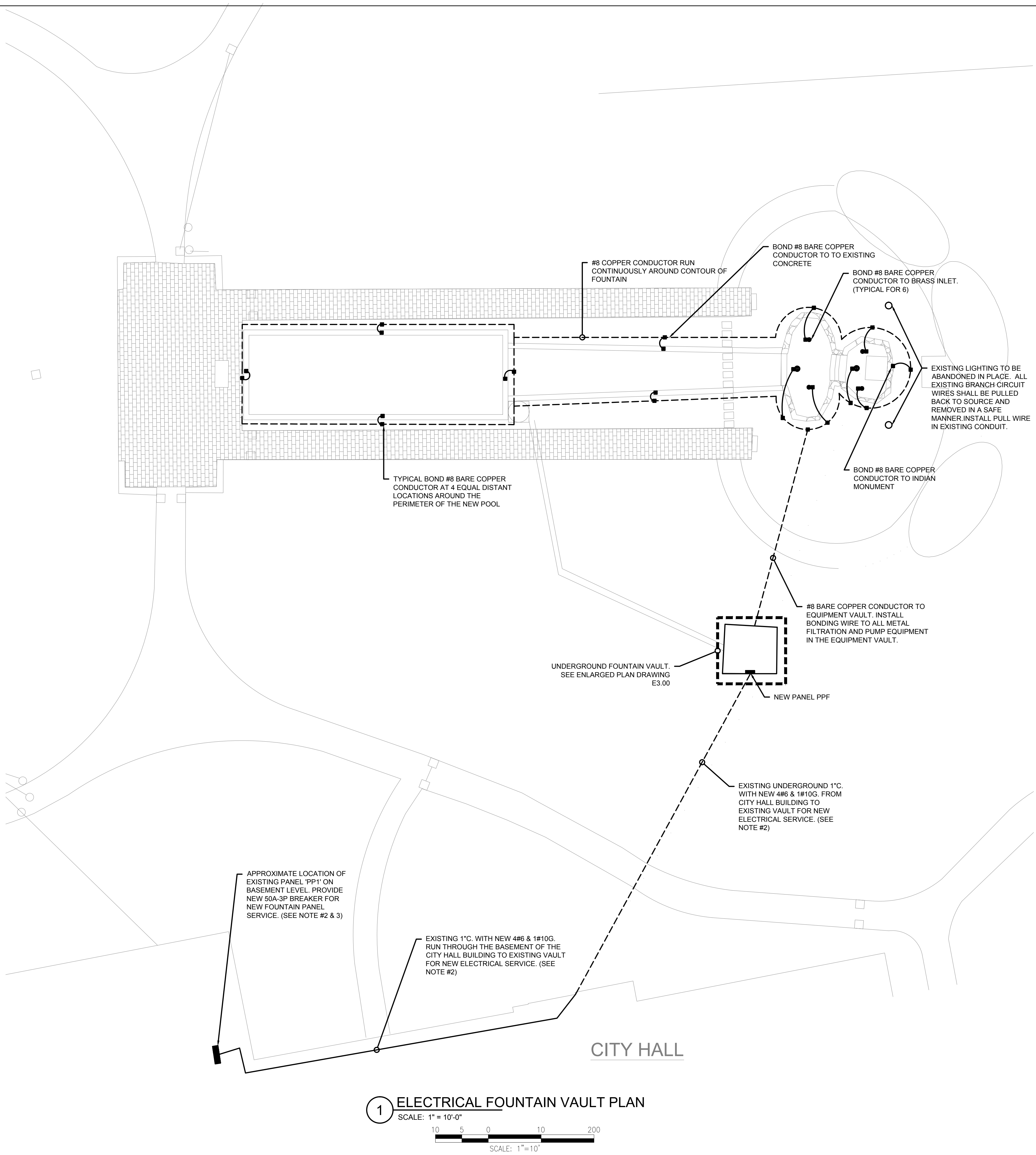
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ELECTRICAL LEGEND
AND NOTES

Sheet Number:

E1.00

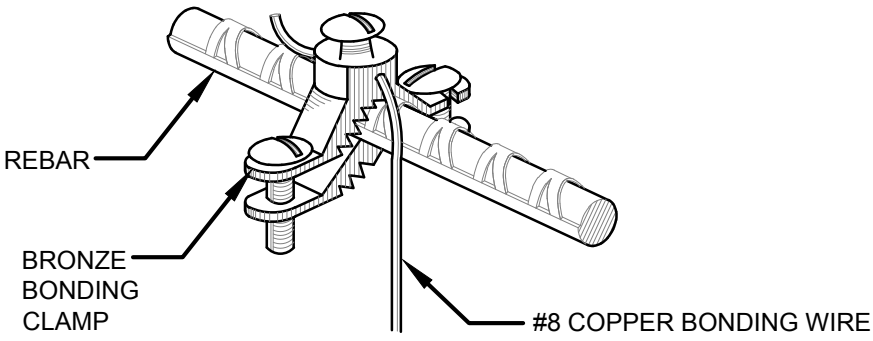
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1 ELECTRICAL FOUNTAIN VAULT PLAN
SCALE: 1" = 10'-0"
10 5 0 10 200
SCALE: 1"=10'

FOUNTAIN BONDING NOTES :

1. ALL METALLIC PARTS OF THE FOUNTAIN STRUCTURES, INCLUDING THE REINFORCING METAL OF THE PAD, FOUNTAINS AND ALL OTHER METALLIC COMPONENTS AS REQUIRED BY CODE SHALL BE BONDED PER THE REQUIREMENTS OF THE CURRENT ELECTRICAL CODE.
2. SOLID COPPER BONDING CONDUCTORS SHALL NOT BE SMALLER THAN NO. 8 AWG AND SHALL BE LARGER WHERE INDICATED.
3. FURNISH AND INSTALL ANY REQUIRED GROUNDING RODS.
4. PROVIDE AND INSTALL BONDING CONDUCTORS THROUGHOUT THE BONDING SYSTEM WITH CONNECTION TO EACH ITEM OF THE SPLASH PAD.
5. BONDING CONDUCTORS SHALL BE CONTINUOUS.
6. INSULATE ANY SPLICES WITH APPROVED INSULATION KIT AND MAKE WATER TIGHT TO PROTECT FROM CORROSION AND MAINTAIN THE INTEGRITY OF THE SPLICE.
7. PROVIDE RED MARKING TAPE BURIED 6" TO 10" BELOW SURFACE INDICATING ANY BURIED BOND WIRES BELOW THAT EXTEND BEYOND THE PERIMETER OF THE SPLASH PAD.
8. COORDINATE INSTALLATION OF GROUNDING/BONDING AT THE BEGINNING OF THE PROJECT. ELECTRICIAN MUST BE PRESENT TO PERFORM HIS WORK BEFORE THE CONCRETE IS APPLIED.
9. COORDINATE FOR CONNECTION OF ALL POOL REBAR, REINFORCING STEEL, AND EQUIPMENT BONDS BEFORE CONCRETE IS POURED.



BONDING DETAIL
SCALE: NTS

EQUIPOTENTIAL BONDING GRID

1. EQUIPOTENTIAL BONDING GRID TO RUN CONTINUOUSLY AROUND THE CONTOUR OF THE FOUNTAIN AND POOL EXTENDING 18" TO 24" FROM THE OUTSIDE WALLS.
2. EQUIPOTENTIAL BONDING CONDUCTOR SHALL COMPLY WITH NEC 2017 ARTICLE 680.26.

DRAWING NOTES :

1. REFER TO DRAWING E1.00 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. ELECTRICAL CONTRACTOR SHALL DISCONNECT EXISTING WIRING IN PANEL PP1 FROM EXISTING 4 - (20A-1P) & 1 - (30A-3P) BREAKERS FEEDING EXISTING FOUNTAIN VAULT. EXISTING 12#12 & 3#10 CONDUCTORS SHALL BE REMOVED FROM THE EXISTING 1" C. AND NEW WIRING AS INDICATED SHALL BE INSTALLED.
3. EXISTING PANEL IS A GE A-SERIES 120/208V 3Ph, 4W.

Project:
ARLINGTON MENOTOMY FOUNTAIN

WINFIELD ROBBINS MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA

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Consultants:

Revisions:

Rev	Date	Description

Seal:



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Date:	03/02/2018
Scale:	AS SHOWN
Drawn By:	ICA
Reviewed By:	RFM
Checked By:	RFM
Approved By:	RFM

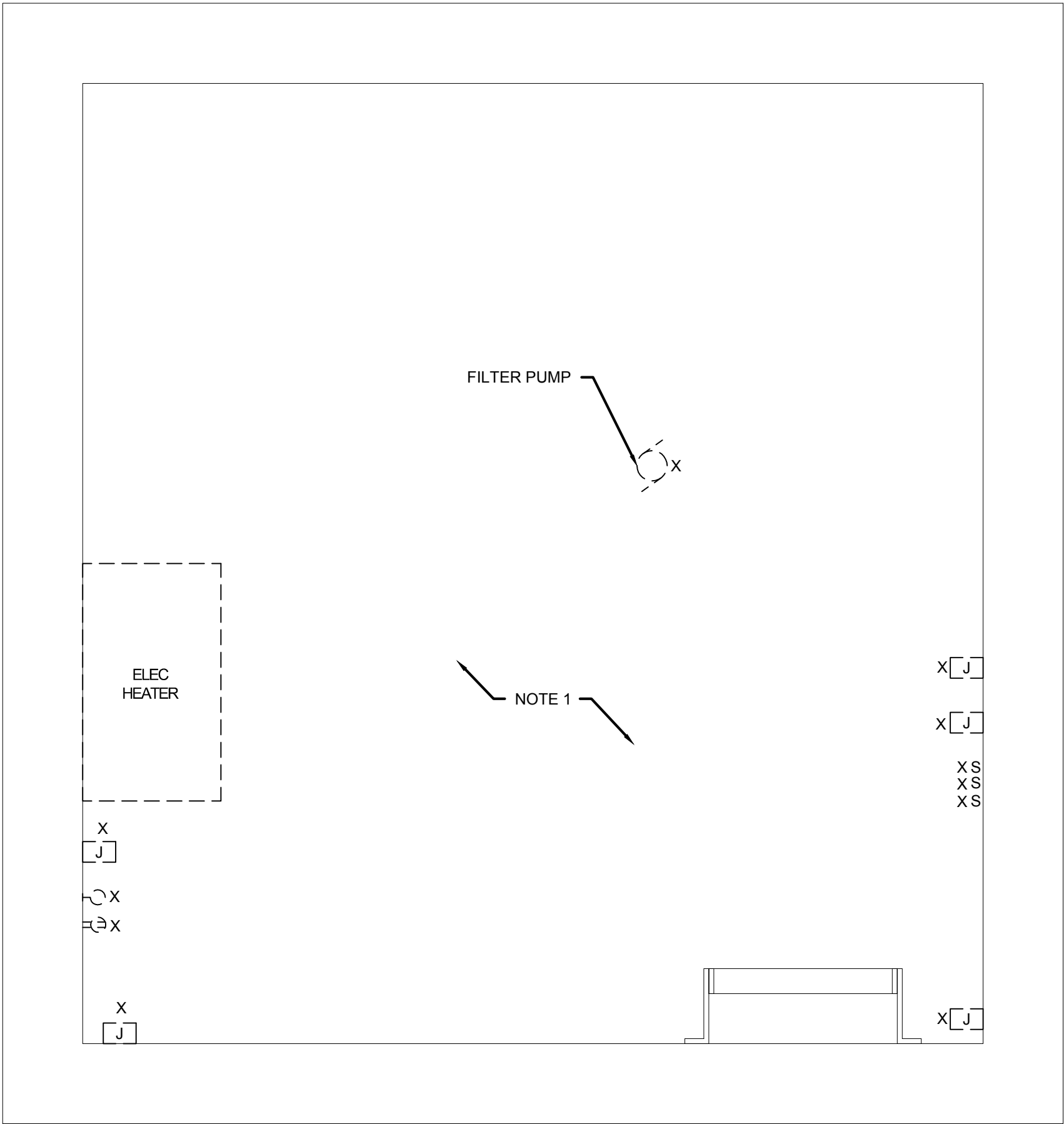
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ELECTRICAL SITE AND BONDING PLAN

Sheet Number:

E2.00

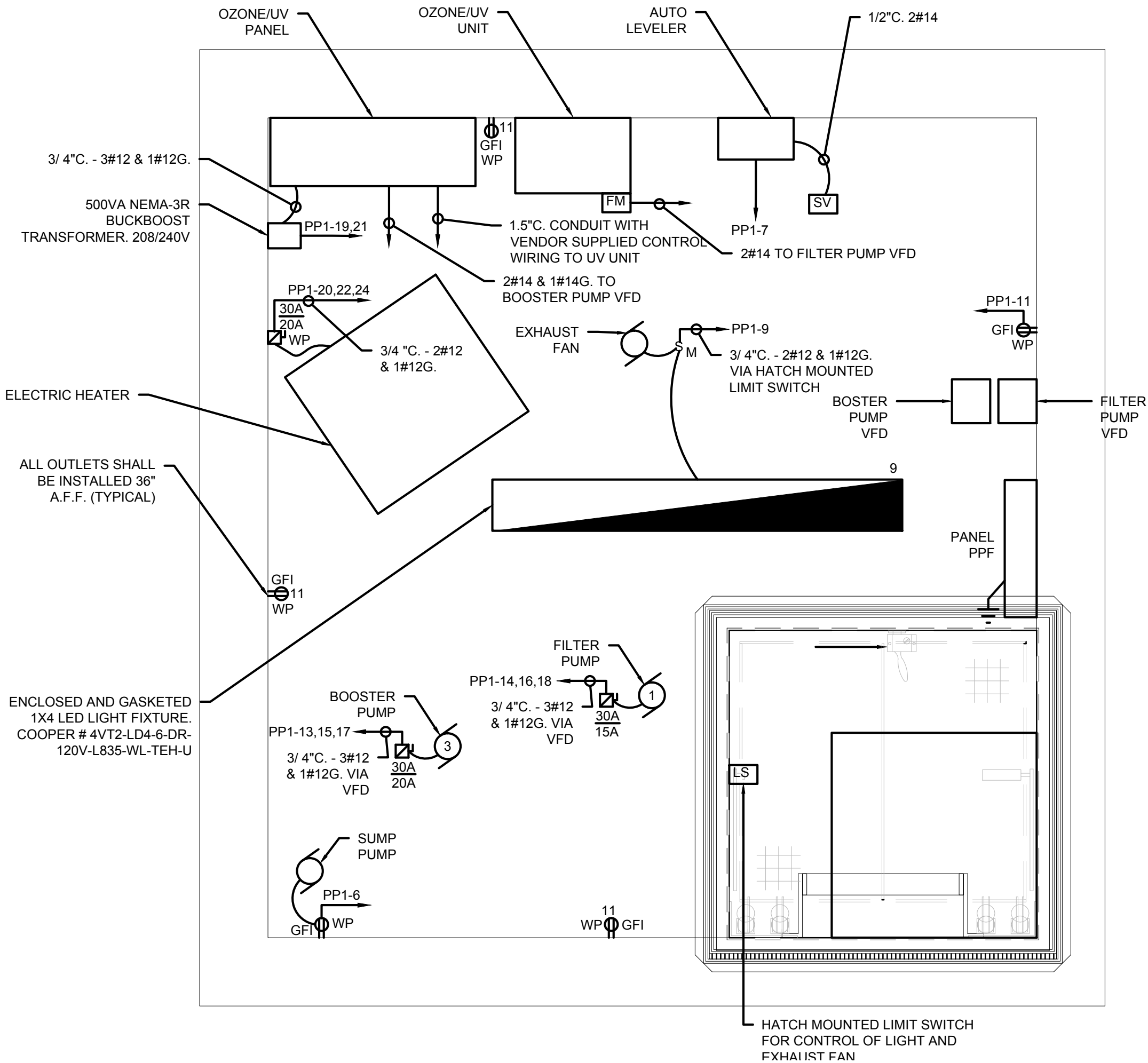
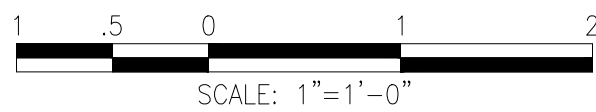
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1 ELECTRICAL FOUNTAIN VAULT DEMOLITION PLAN
SCALE: 1" = 1'-0"

DEMOLITION PLAN NOTES:

1. ALL EXISTING EQUIPMENT, WIRING, CONDUIT AND ASSOCIATED CONTROLS WITHIN EXISTING VAULT SHALT BE CUT BACK TO SOURCE AND REMOVED IN A SAFE MANNER.



1 ELECTRICAL FOUNTAIN VAULT PLAN
SCALE: 1" = 1'-0"

NEW PANEL "PPF" SCHEDULE											
VOLTS	120/208V	REMARKS: SERVICE ENTRANCE RATED NEMA-4X, INCLUDE INTEGRAL SURGE PROTECTION								MAINS	50A MCB
PHASE	3ø									BUSSING	100A
WIRE	3W									FEED	TOP
A.I.C.	10K									MOUNTING	SURFACE
CIRCUIT	SERVICE DESCRIPTION	LOAD (KVA)	BREAKER	POLES	A	B	POLES	BREAKER	LOAD (KVA)	SERVICE DESCRIPTION	CIRCUIT
1	SPARE		20A	1P	•		1P	20A		SPARE	2
3	SPARE		20A	1P	•		1P	20A		SPARE	4
5	SPARE		20A	1P	•		1P	20A		SPARE	6
7	AUTO LEVELER		20A	1P	•		1P	20A		SPARE	8
9	EXHAUST FAN		20A	1P	•		1P	20A		SUMP PUMP	10
11	VAULT RECEPTACLES		20A	1P	•		1P	20A		SPACE	12
13					•						14
15	BOOSTER PUMP		20A	3P	•		3P	15A		FILTER PUMP	16
17					•						18
19	UV UNIT VIA BUCK BOOST TRANSFORMER		15A	2P	•		3P	20A		ELECTRIC UNIT HEATER	20
21					•						22
23	SPACE			1P	•						24

Project:
ARLINGTON MENOTOMY FOUNTAIN



**WINFIELD ROBBINS
MEMORIAL GARDEN
MASSACHUSETTS AVE
ARLINGTON, MA**

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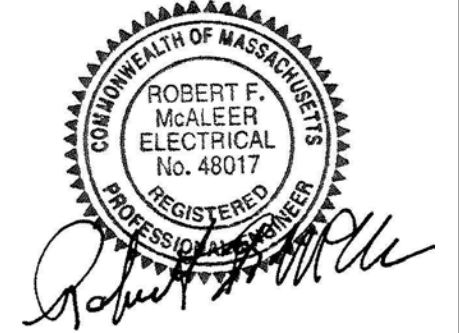
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Revisions:

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Reviewed By: RFM

Checked By: RFM

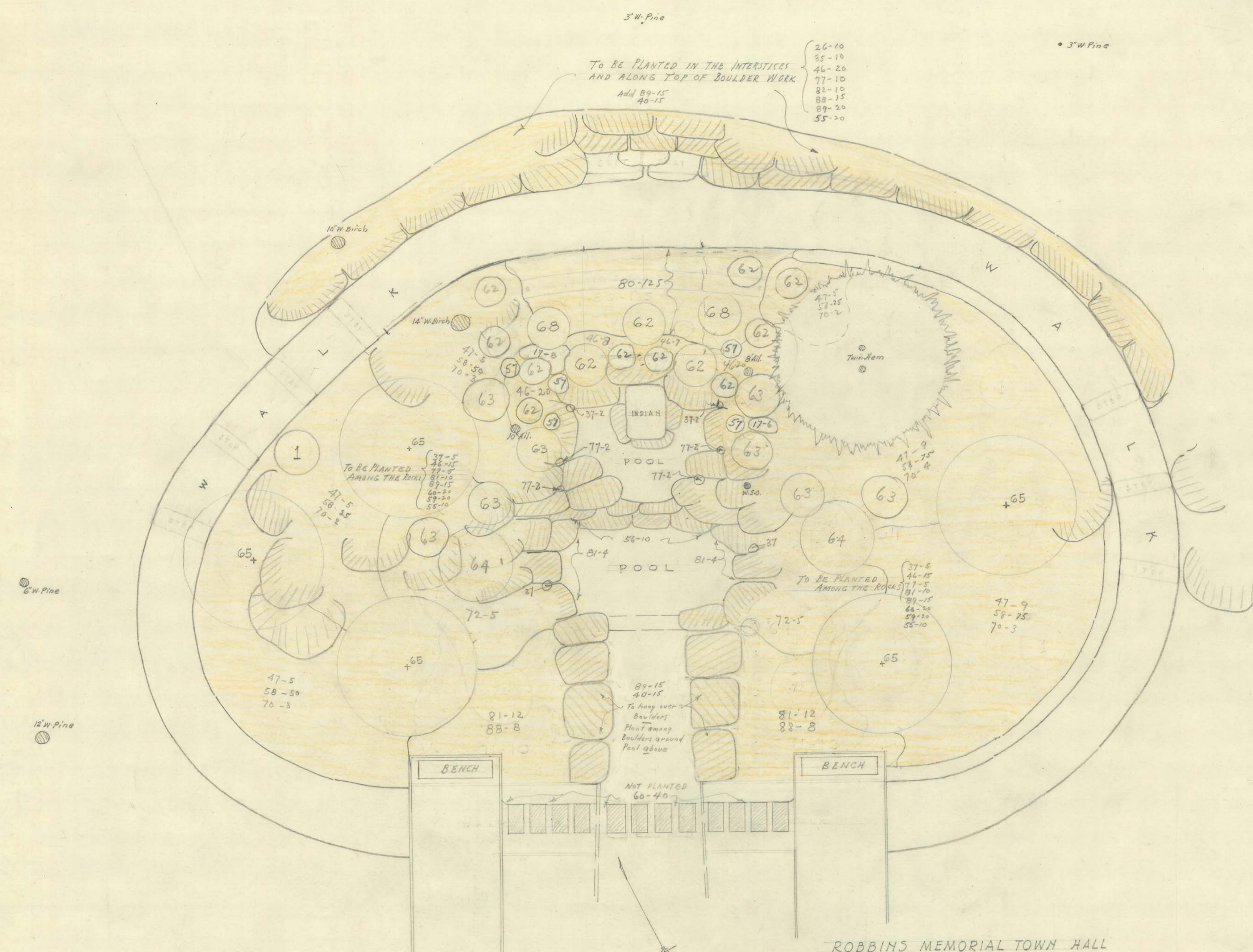
Approved By: RFM

Drawing Title:

**ELECTRICAL ENLARGED
VAULT PLAN**

Sheet Number:

E3.00



Planting Note
Plants to be used are indicated by two numbers: Thus 10-5
The first refers to the list and indicates the KIND; the
second indicates the QUANTITY. Where the second
number is omitted, one plant is to be used.

ROBBINS MEMORIAL TOWN HALL
Arlington-Mass
PLANTING PLAN - VICINITY OF INDIAN
Scale 1/4" = 1'
Olmsted Brothers Landscape Architects
Brookline-Mass. May 26, 1939.
FILE #2252 PLAN #168
Revised June 12, 1939,
" June 14, 1939,
" June 27, 1939,
" July 17, 1939.

Drawn by GRW. Approved for Issue
Traced by SML by: J.H.O.
Checked by
2252-168

ROBBINS MEMORIAL TOWN HALL

ARLINGTON - MASS

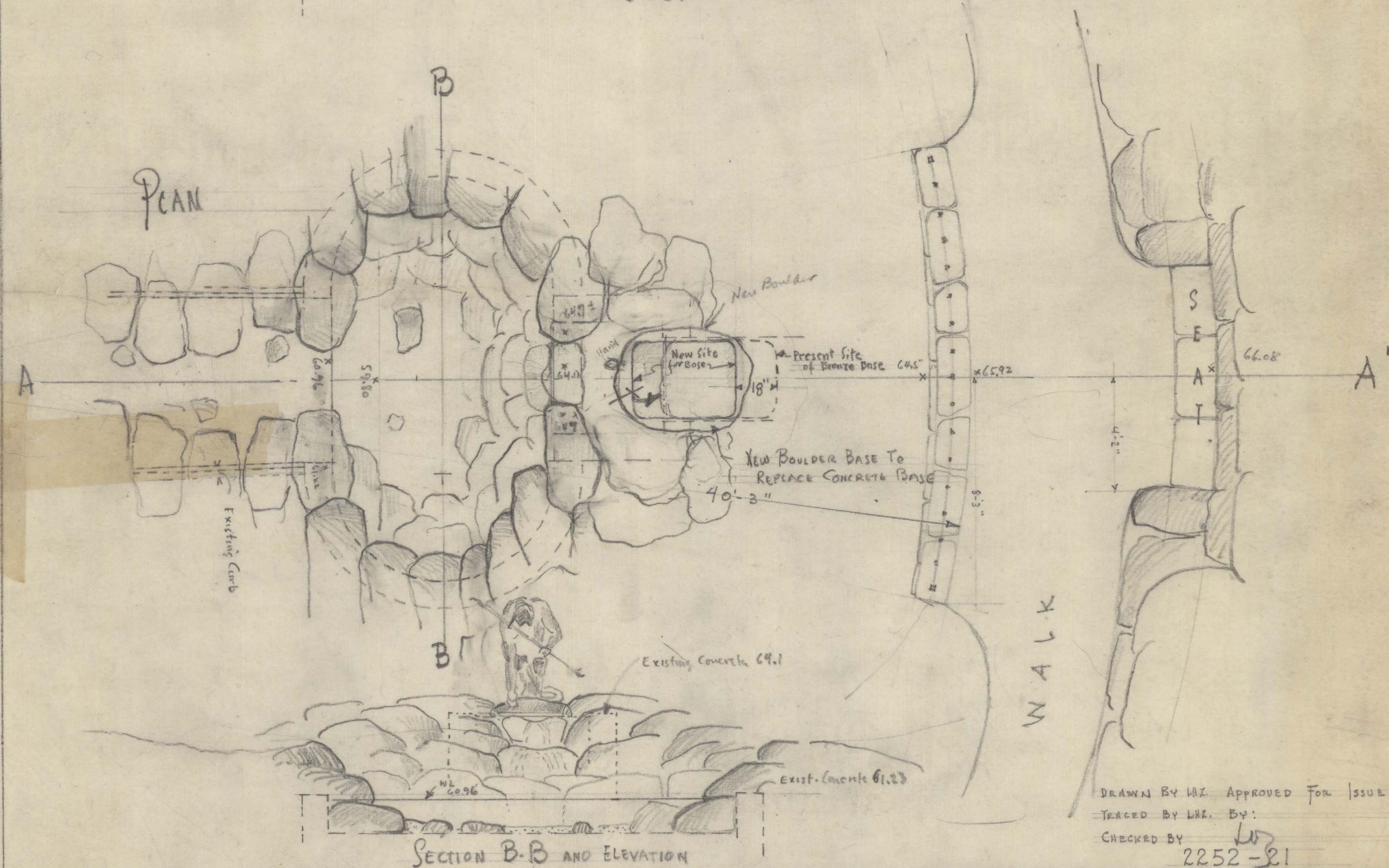
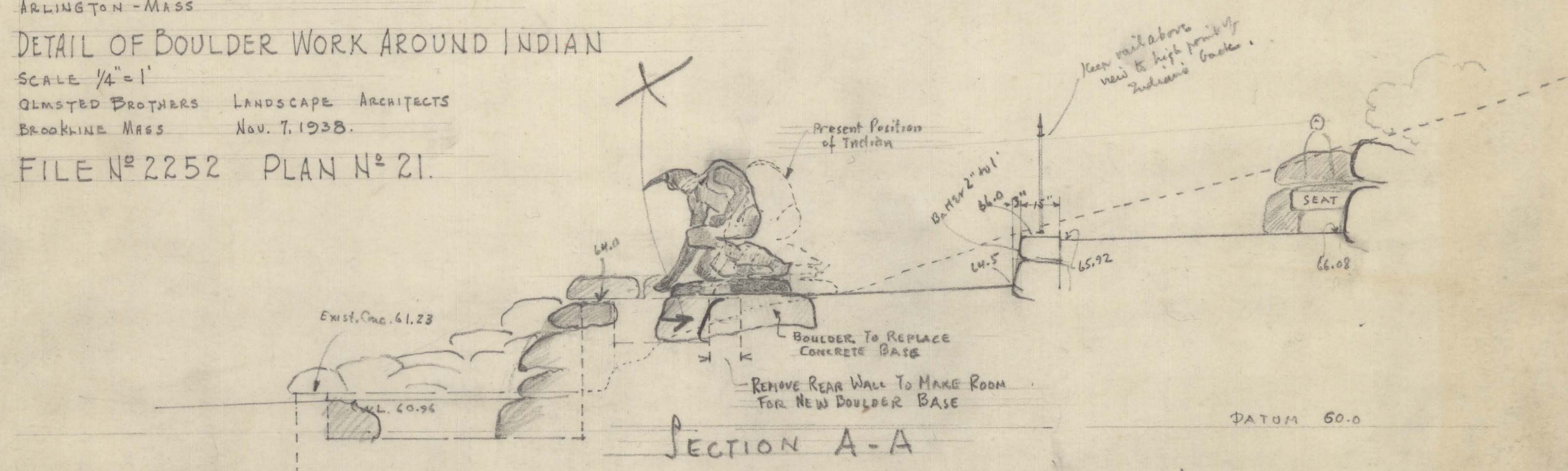
DETAIL OF BOULDER WORK AROUND INDIAN

SCALE 1/4" = 1'

OLMSTED BROTHERS LANDSCAPE ARCHITECTS

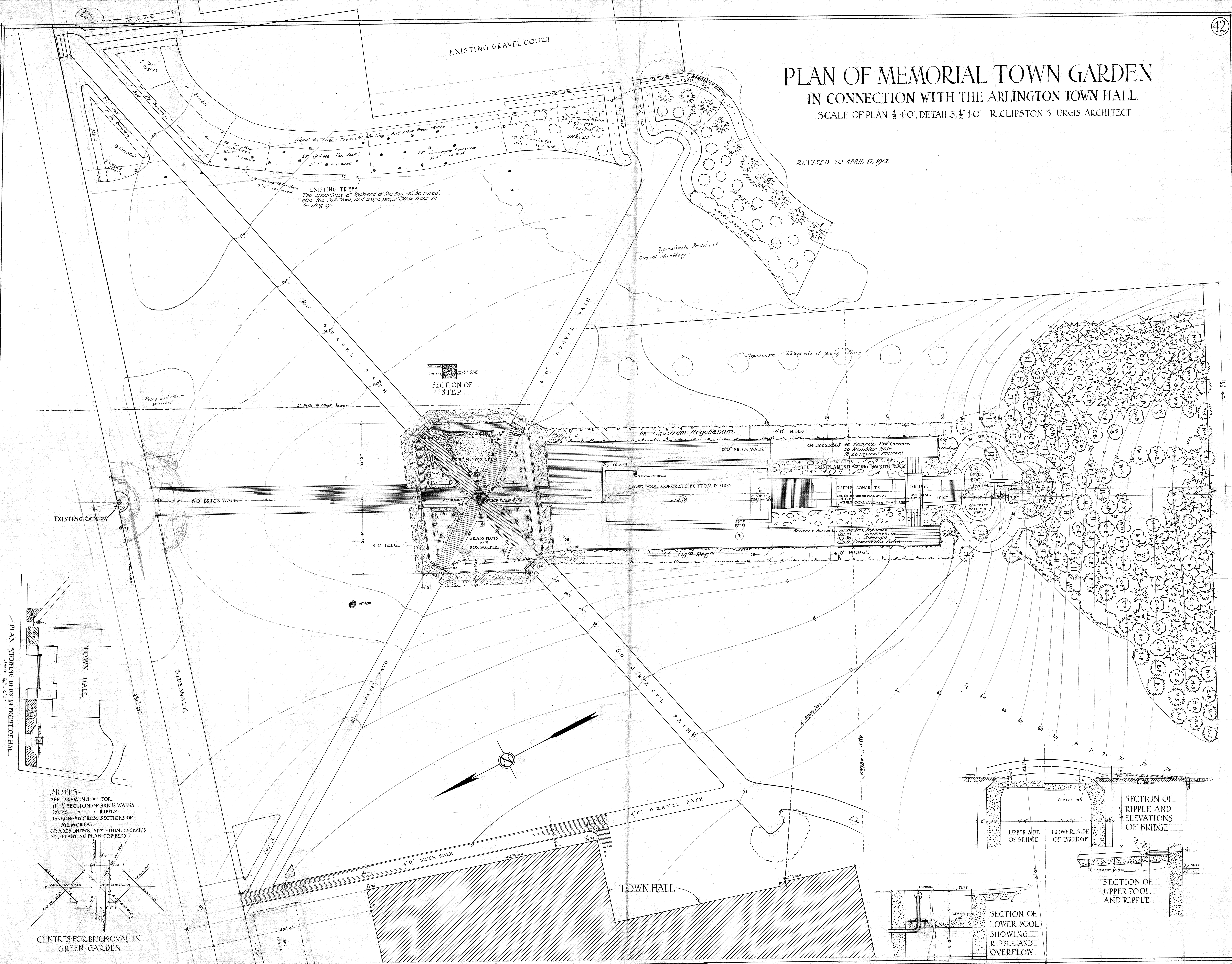
BROOKLINE MASS NOV. 7, 1938.

FILE NO 2252 PLAN NO 21.



DRAWN BY HAZ. Approved For Issue
 TRACED BY HAZ. By:
 CHECKED BY *W*
 2252-21

REVISED TO APRIL 17, 1912



NOTES-
SEE DRAWING #1 FOR
(1) $\frac{1}{2}$ SECTION OF BRICK WALKS.
(2) F.S. " " RIPPLE.
(3) LONG & CROSS SECTIONS OF
MEMORIAL
GRADES SHOWN ARE FINISHED GRADES.
SEE PLANTING PLAN FOR BEDS /

CENTRES FOR BRICK OVAL IN
GREEN GARDEN

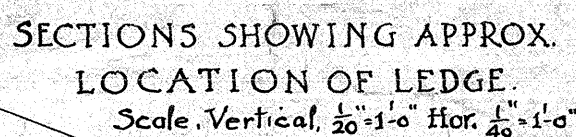
SECTION OF
RIPPLE AND
ELEVATIONS
OF BRIDGE

SECTION OF
UPPER POOL
AND RIPPLE

SECTION OF
LOWER POOL
SHOWING
RIPPLE AND
OVERFLOW

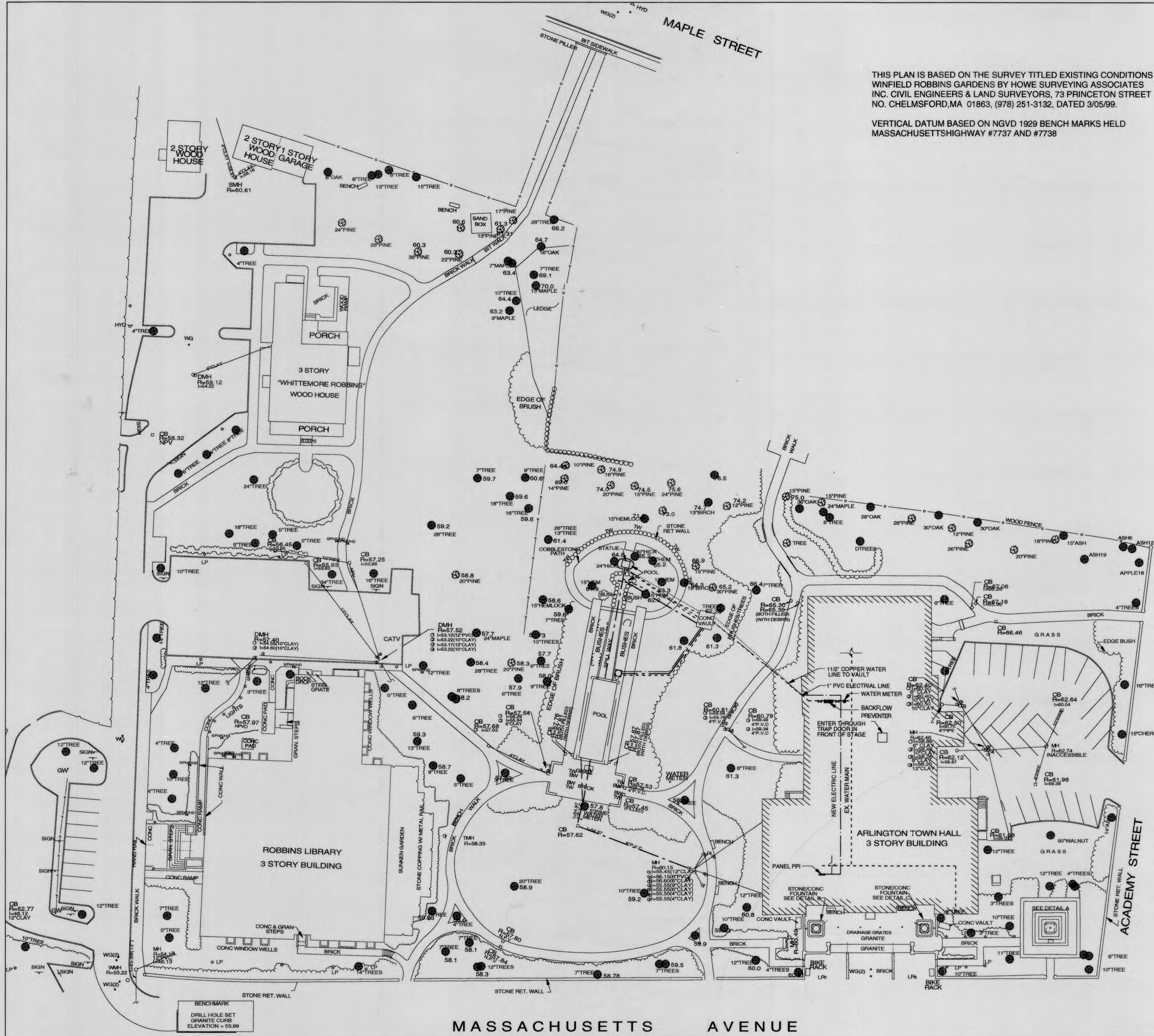


NOTE - ALL CURBS, BRIDGE, FOOTINGS, ETC. ARE CONCRETE.



R. CLIPSTON STURGIS, ARCHITECT, BOSTON, 1911

JOB 185 SCALE $\frac{1}{40}'' = 1'-0''$



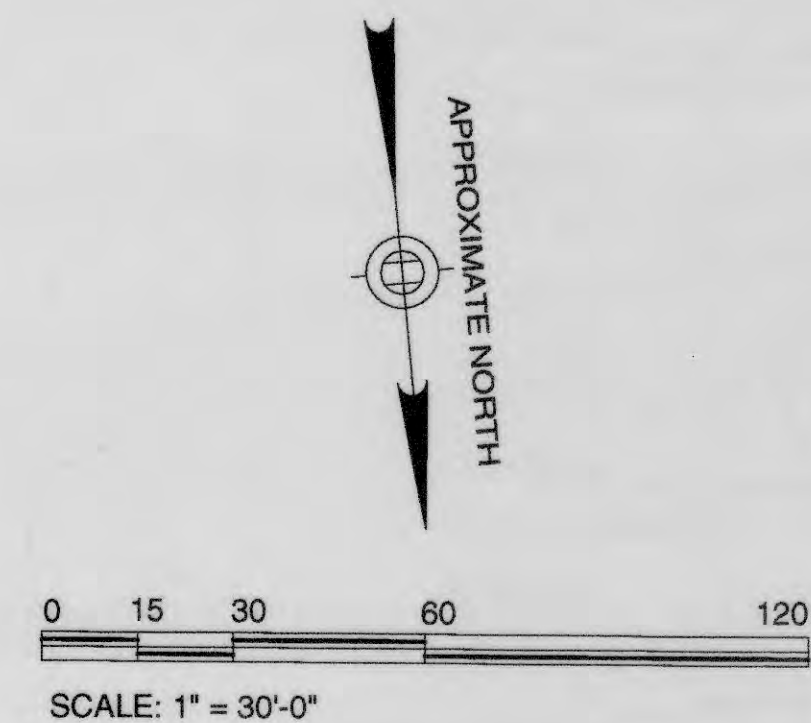
THIS PLAN IS BASED ON THE SURVEY TITLED EXISTING CONDITIONS
WINFIELD ROBBINS GARDENS BY HOWE SURVEYING ASSOCIATES
INC. CIVIL ENGINEERS & LAND SURVEYORS, 73 PRINCETON STREET
NO. CHELMSFORD, MA 01863, (978) 251-3132, DATED 3/05/99.

VERTICAL DATUM BASED ON NGVD 1929 BENCH MARKS HELD
MASSACHUSETTS HIGHWAY #7737 AND #7738

EXISTING CONDITIONS LEGEND	
-----	EXISTING CONTOUR
-----	EXISTING INDEX CONTOUR
X 60.55	SPOT GRADE
---CLF	CHAIN LINK FENCE
	BUILDING
BND	BOUND
CATV	CABLE TV
CB	CATCH BASIN
DMH	DRAIN MANHOLE
EMH	ELECTRIC MANHOLE
EVGR	EVERGREEN TREE
FLAG	FLAG POLE
GG	GAS GATE
GW	GUY WIRE
HYD	HYDRANT
LP	LIGHT POLE
MH	MANHOLE
POST	POST
SMH	SAN. SEWER MANHOLE
SIGN	SIGN
SLP	STREET LIGHT POLE
TMH	TELEPHONE MANHOLE
TREE	TREE GENERIC
UP	UTILITY POLE
WG	WATER GATE

ABBREVIATIONS	
BC	BOTTOM CURB
BW	BOTTOM WALL
BIT	BITUMINOUS CONCRETE
CONC.	CONCRETE
GRAN.	GRANITE
I	INVERT
R	RIM
TC	TOP CURB
TW	TOP WALL

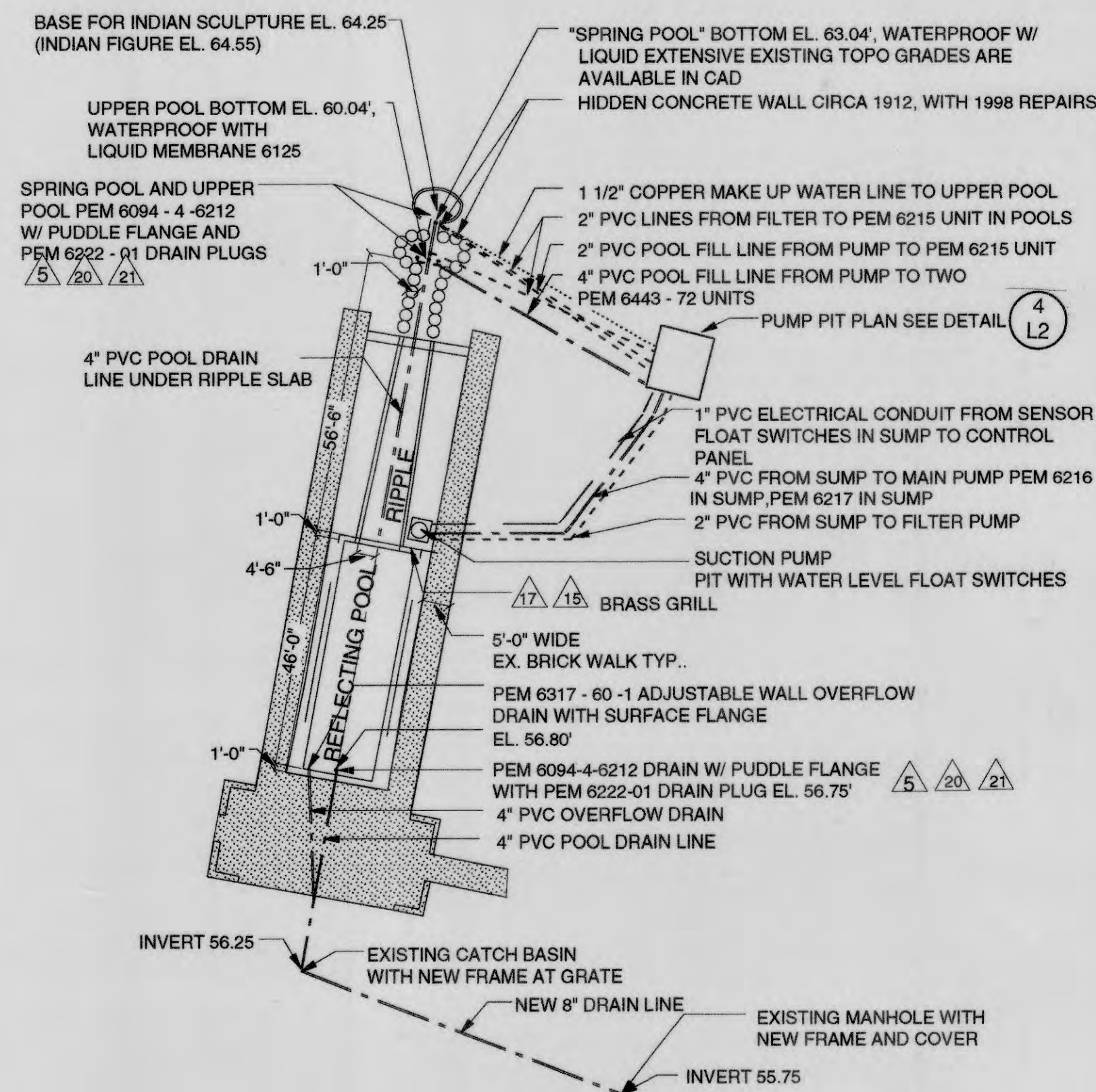
LEGEND	
-----	1 1/2" COPPER PIPE LINE
----	2" PVC PIPE LINE
----	4" PVC PIPE LINE
----	1" PVC ELECTRICAL LINE



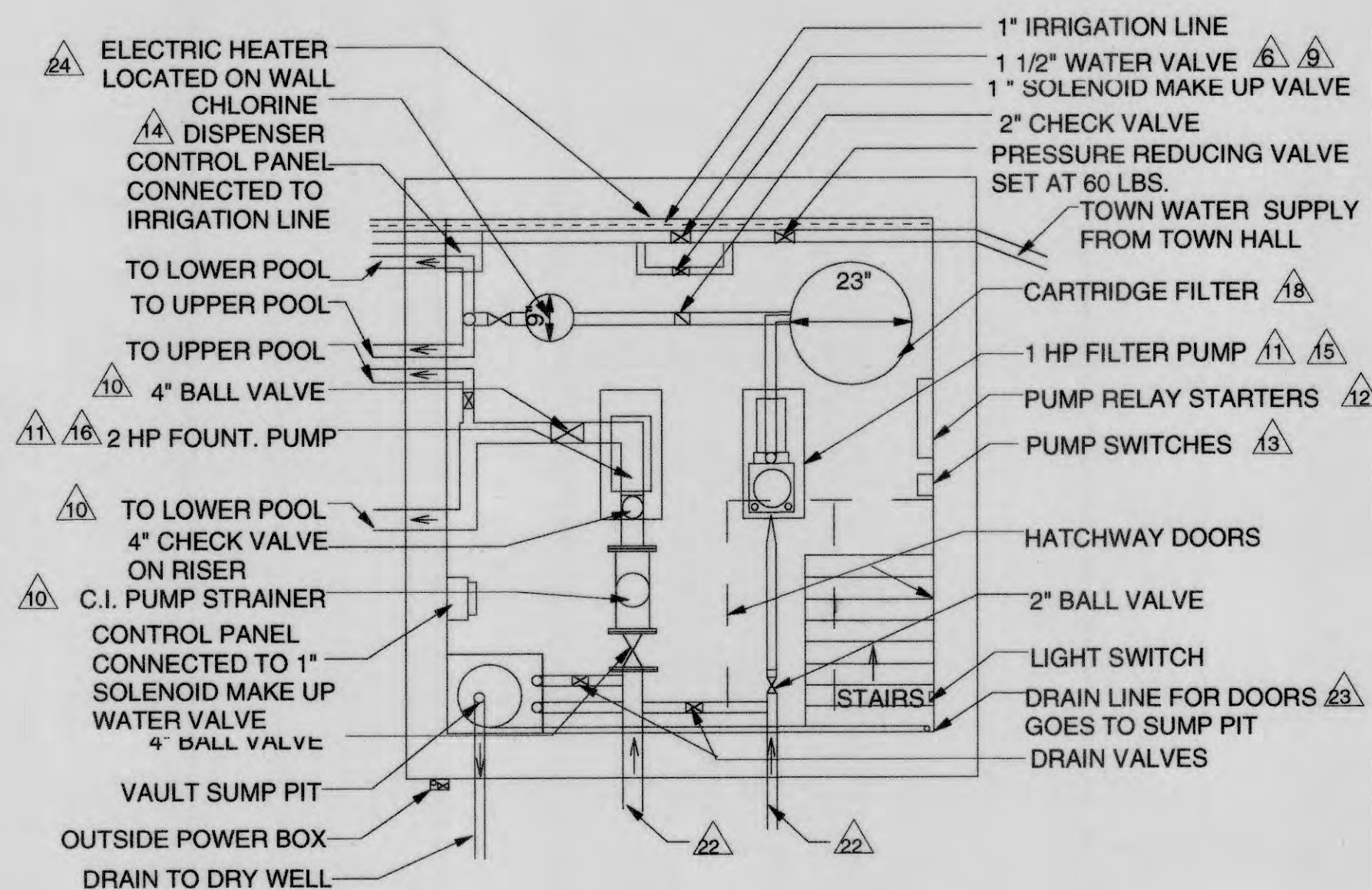
TOWN HALL GARDENS HISTORIC RESTORATION POOLS RECONSTRUCTION PH. 1A

LANDSCAPE ARCHITECT:
PAT LOHEED • LANDSCAPE ARCHITECT
1310 BROADWAY, SUITE 103
SOMERVILLE, MA 02144
617-623-4366 • FAX 617-623-4362

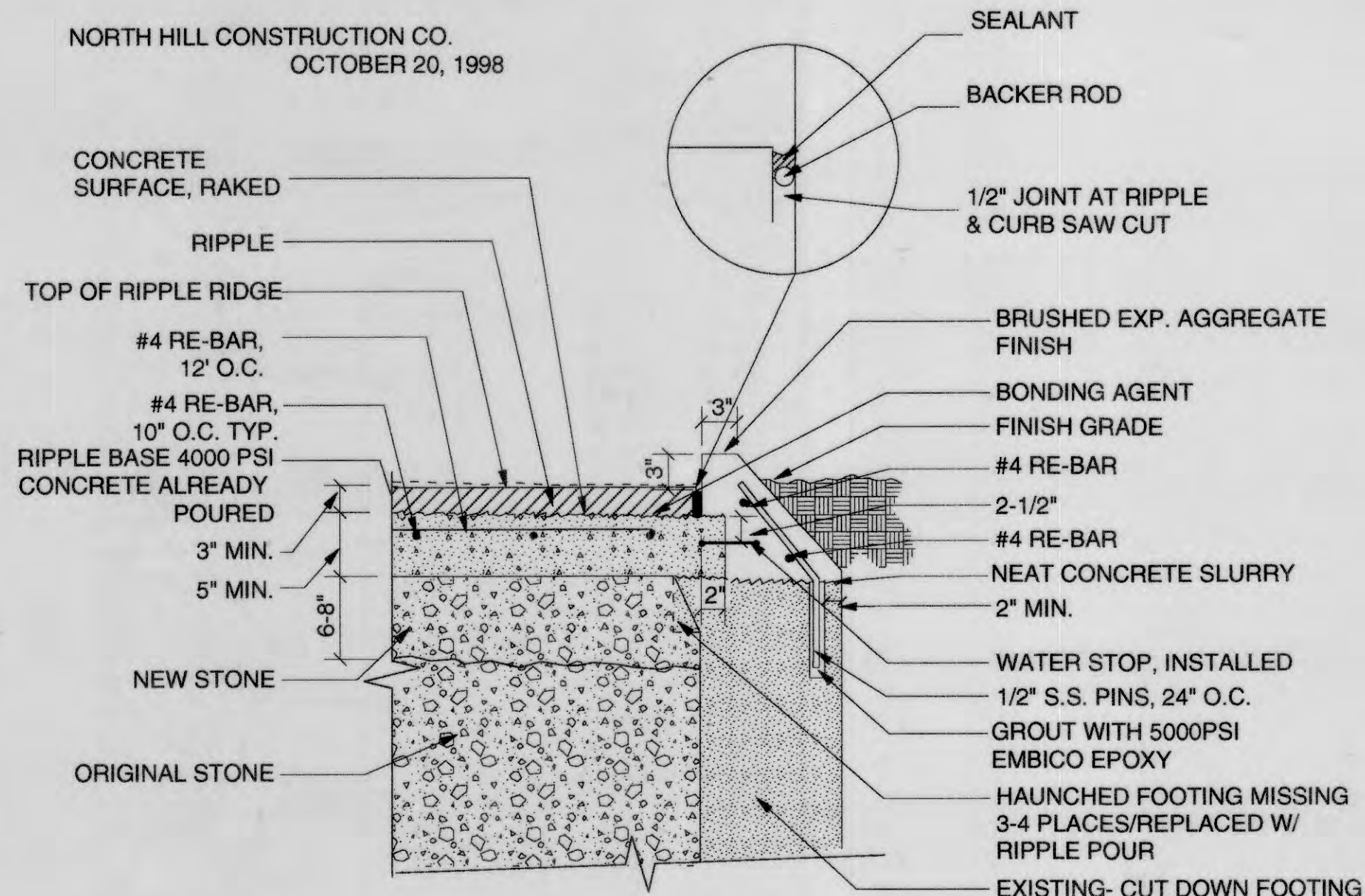
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DRAWN BY: JR. JJ CHECKED BY: PL	DATE: 9/99



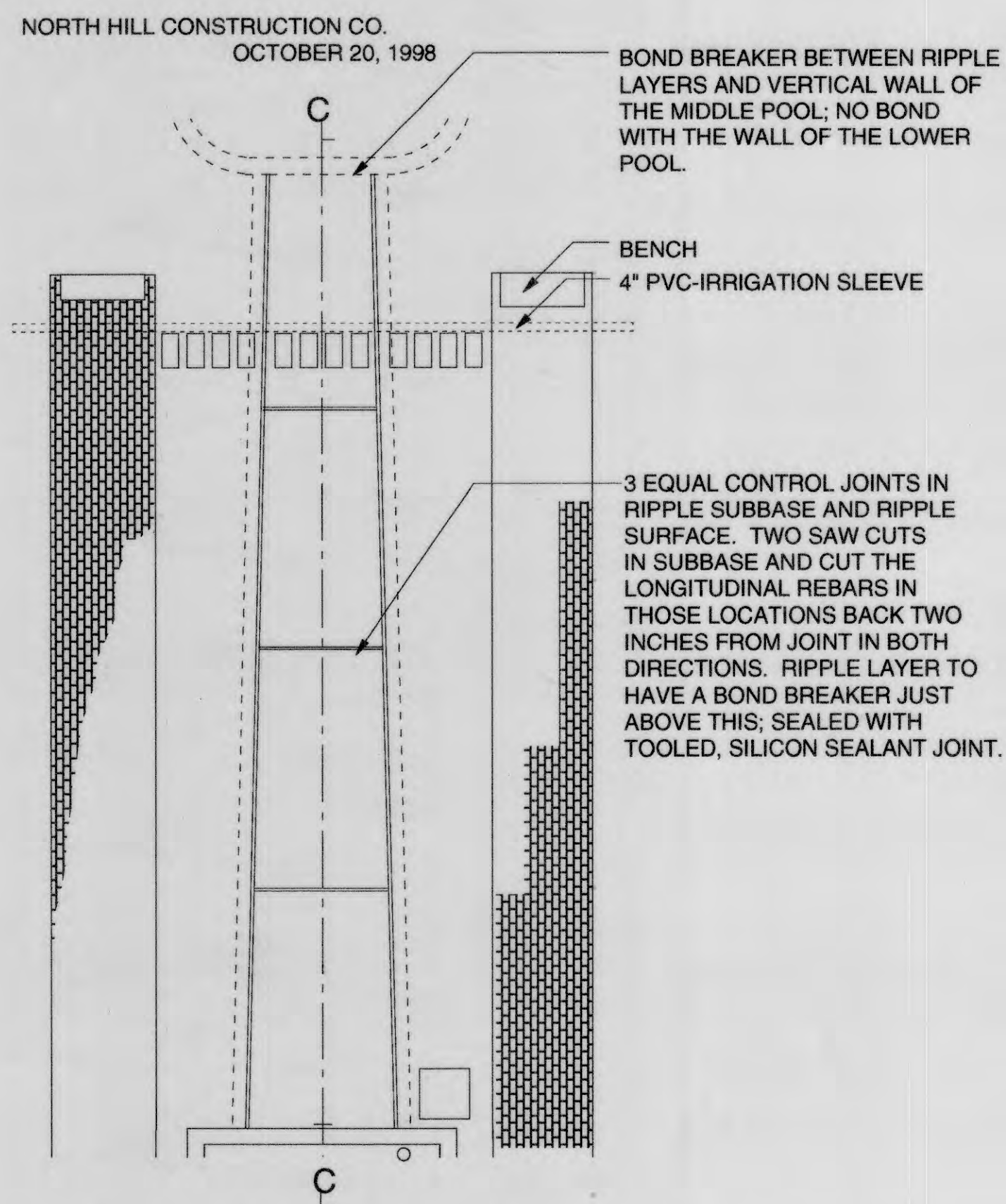
POOL PLAN ENLARGEMENT
SCALE: N.T.S



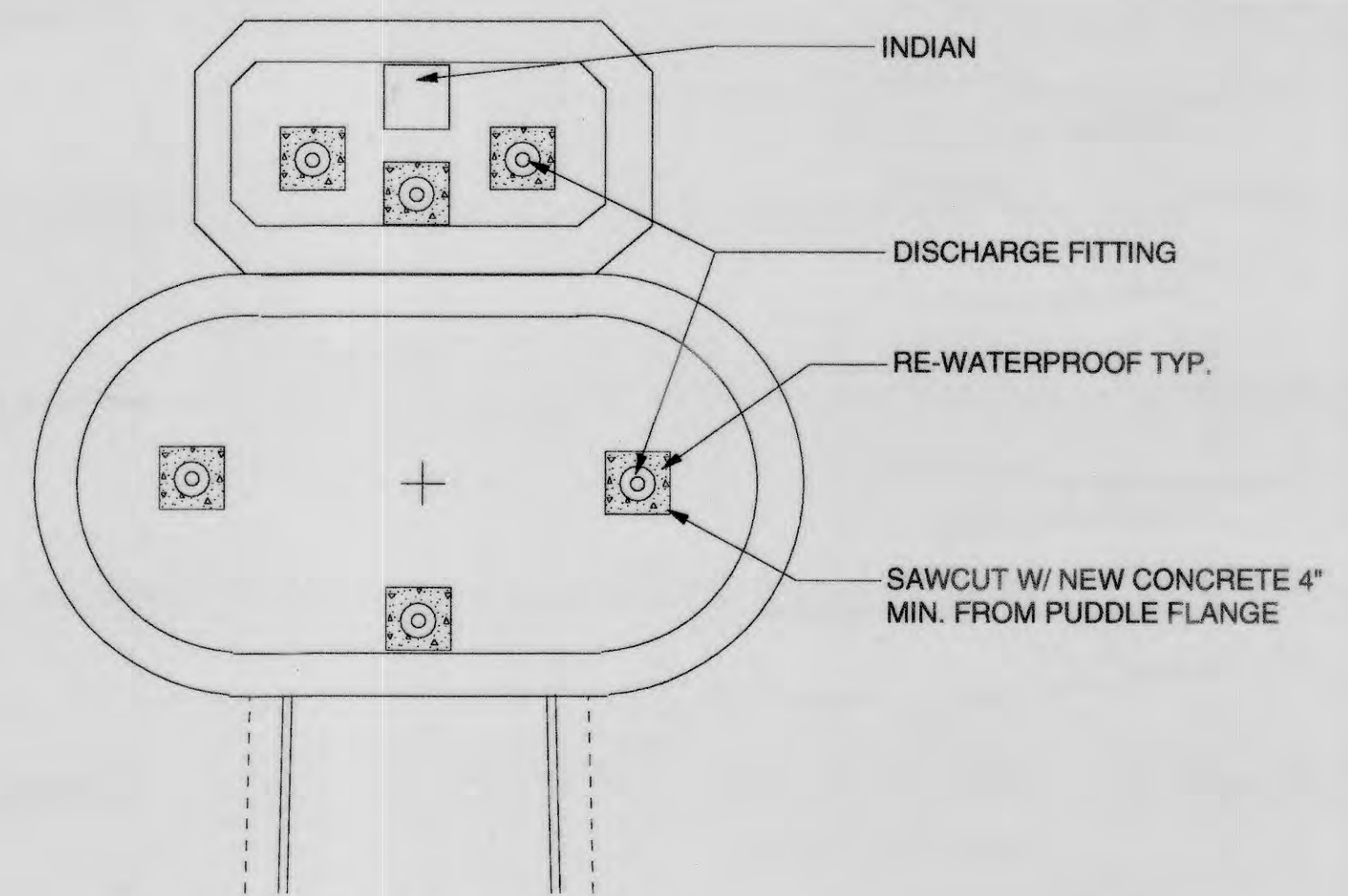
PUMP PIT PLAN
SCALE: N.T.S



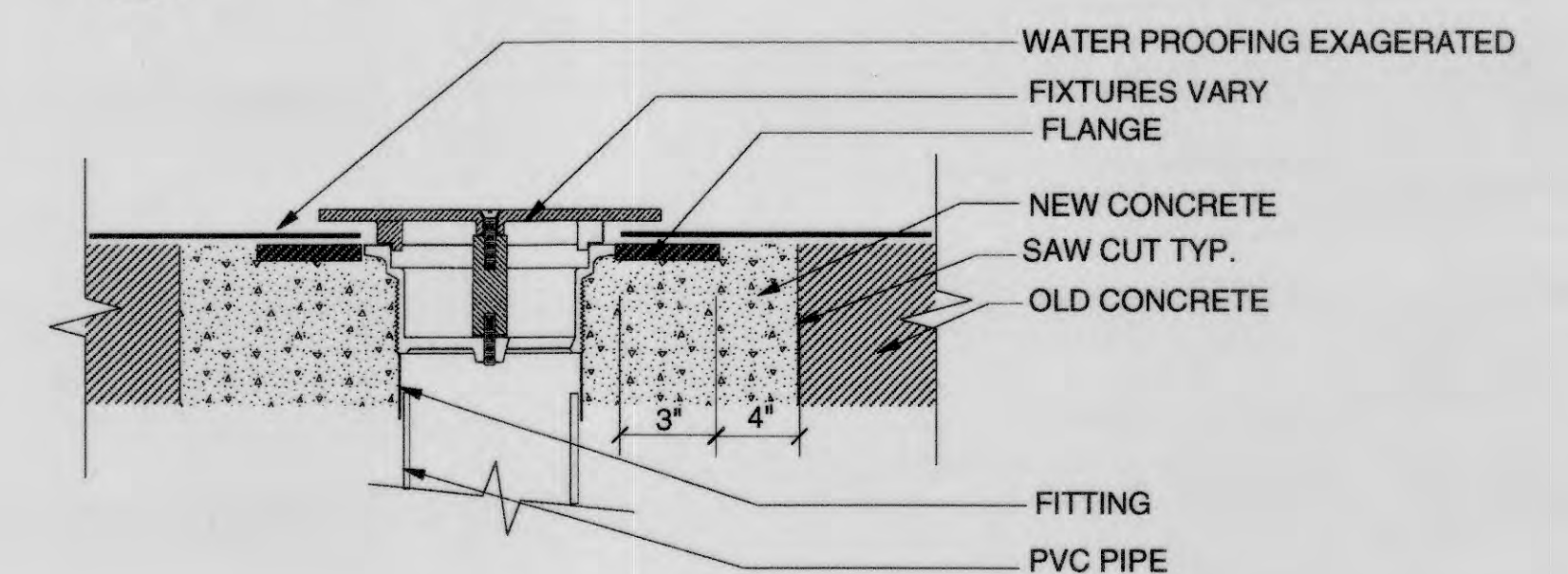
RIPPLE & RIPPLE CURB SECTION
SCALE: N.T.S



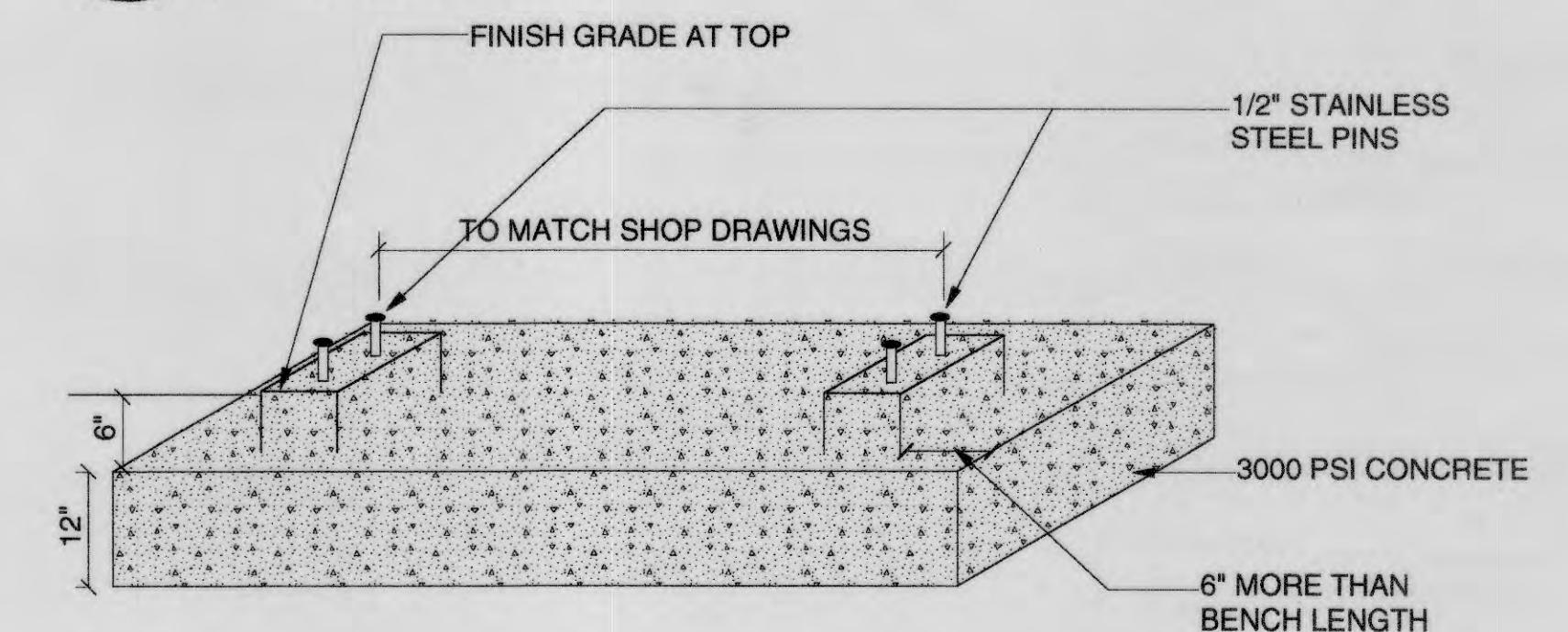
POOL LAYOUT
SCALE: N.T.S



POOL SKETCH
SCALE: N.T.S



TYP REPAIR SECTION
SCALE: N.T.S



BENCH PADS
SCALE: N.T.S.

**TOWN HALL GARDENS
HISTORIC RESTORATION
POOLS RECONSTRUCTION PH. 1A**

LANDSCAPE ARCHITECT:

PAT LOHEED • LANDSCAPE ARCHITECT
1310 BROADWAY, SUITE 103
SOMERVILLE, MA 02144
617-623-4366 • FAX 617-623-4362

REVISIONS:

TITLE:

AS BUILT DETAILS

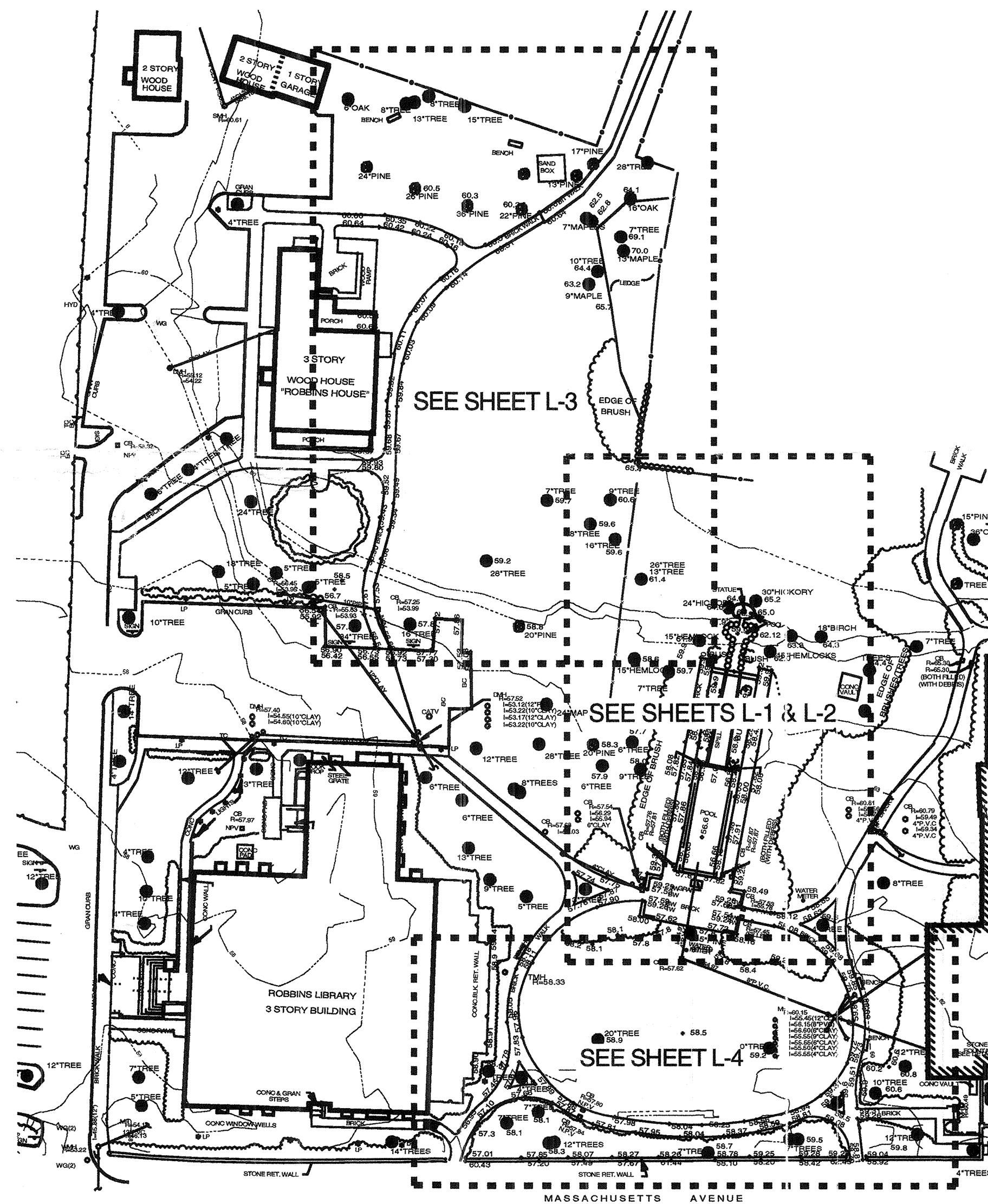
DRAWN BY: JR, JJ
CHECKED BY: PL

DATE:
9/99

L-2

TOWN HALL GARDENS HISTORIC RESTORATION DEM CONTRACT

TOWN OF ARLINGTON MASSACHUSETTS



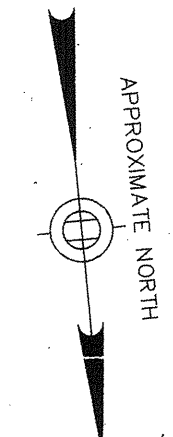
DRAWINGS:

- EX EXISTING CONDITIONS
- L-1 AREA A - DEMO PLAN
- L-2 AREA A - PLANTING PLAN
- L-3 AREA B - PLANTING PLAN
- L-4 AREA C - PLANTING PLAN
- L-5 AREA A - IRRIGATION PLAN

TOWN HALL GARDENS HISTORIC RESTORATION - DEM CONTRACT

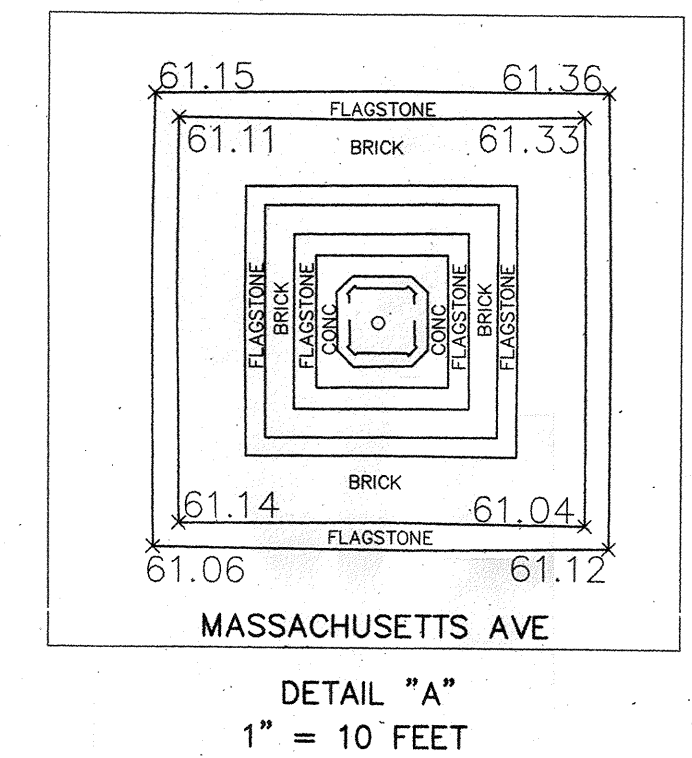
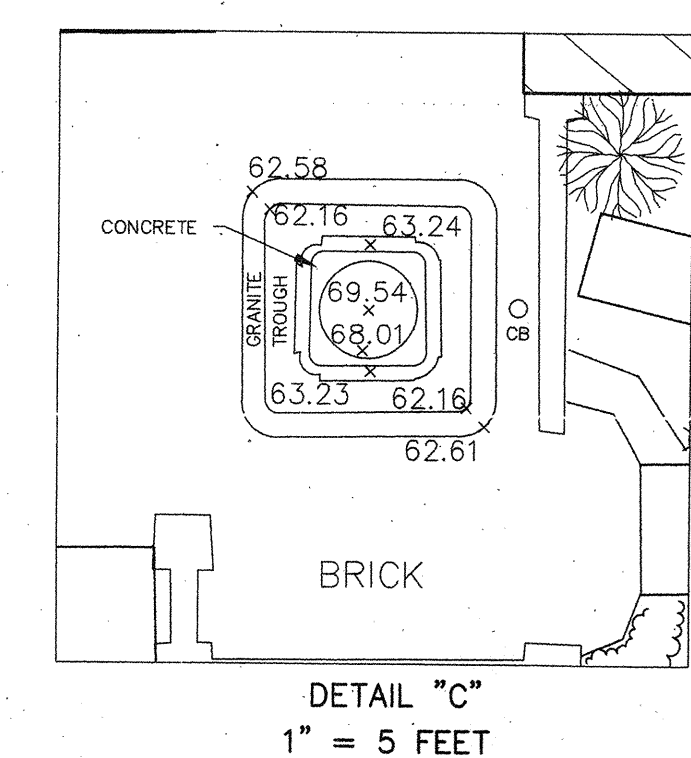
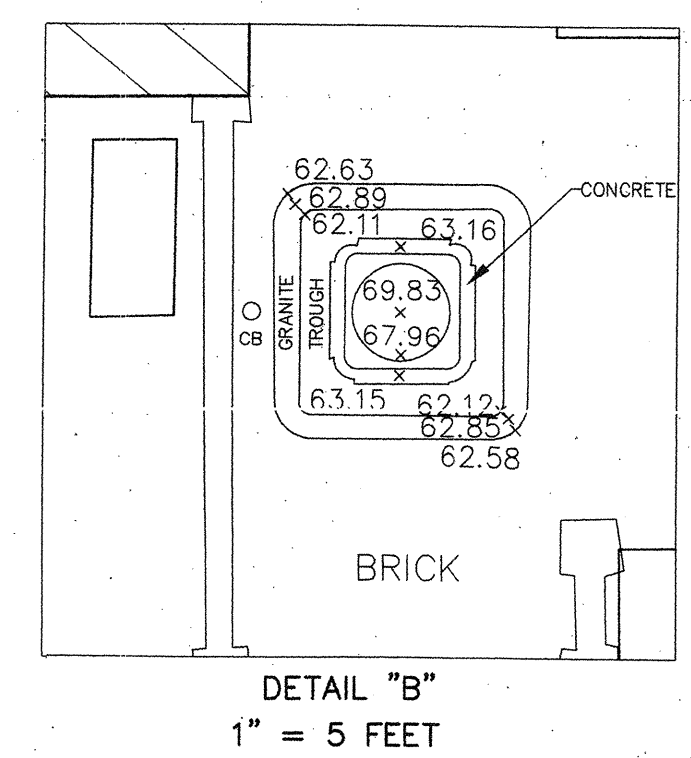
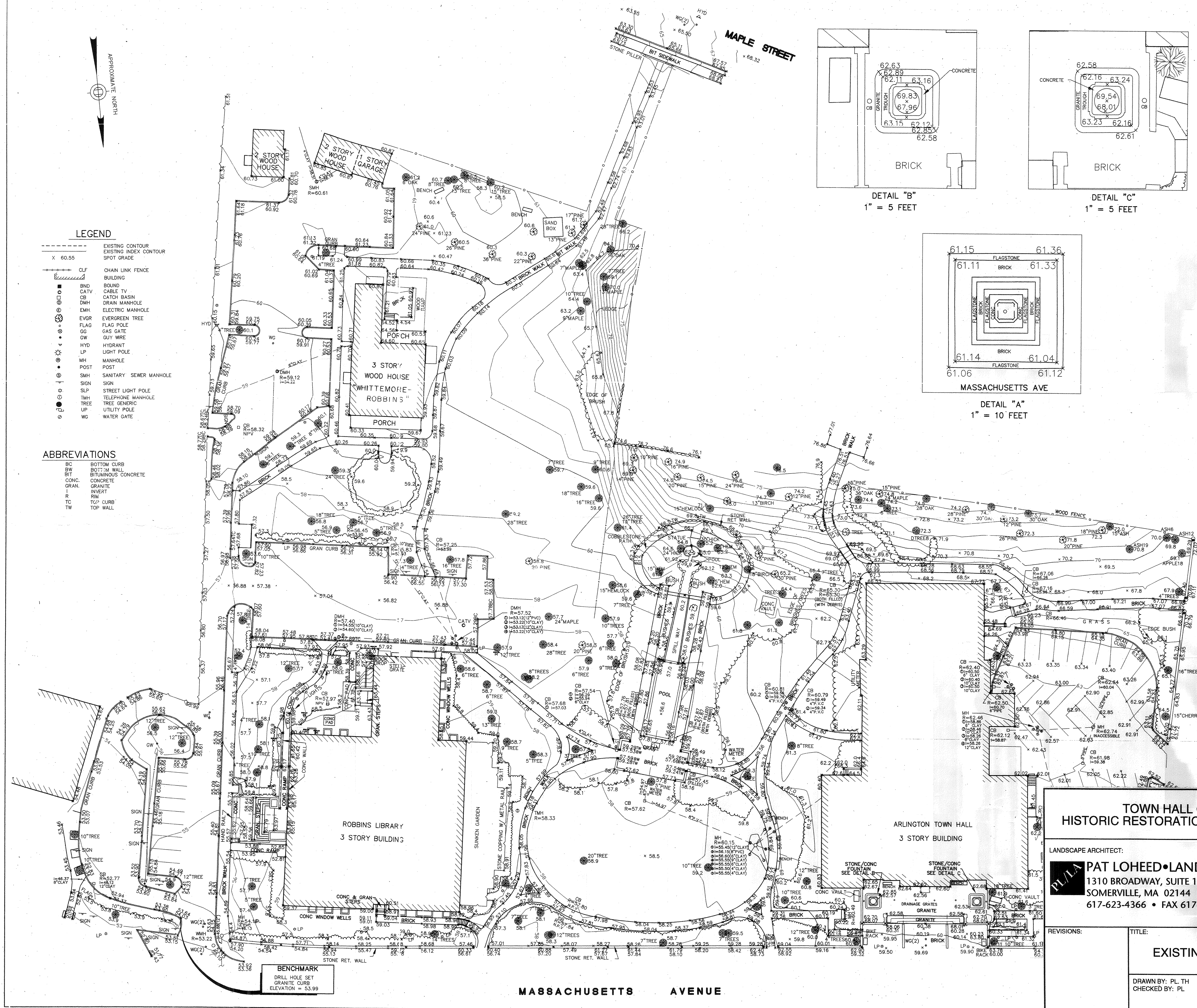
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SOMERVILLE, MA 02144
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REVISIONS:	TITLE: EXISTING CONDITIONS		
	DRAWN BY: PL, JR CHECKED BY: PL	DATE: 3/18/99	EX



- LEGEND**
- X 60.55 --- EXISTING CONTOUR
 - - - - - EXISTING INDEX CONTOUR
 - • • • • SPOT GRADE
 - CLF CHAIN LINK FENCE
 - BND BOUND
 - CATV CABLE TV
 - CB CATCH BASIN
 - DMH DRAIN MANHOLE
 - EMH ELECTRIC MANHOLE
 - EVGR EVERGREEN TREE
 - FLAG FLAG POLE
 - GG GAS GATE
 - GW GUY WIRE
 - HYD HYDRANT
 - LP LIGHT POLE
 - MH MANHOLE
 - POST POST
 - SMH SANITARY SEWER MANHOLE
 - SIGN SIGN
 - SLP STREET LIGHT POLE
 - TMH TELEPHONE MANHOLE
 - TREE TREE
 - UP UTILITY POLE
 - WG WATER GATE

- ABBREVIATIONS**
- BC BOTTOM CURB
 - BW BOTTOM WALL
 - BT BITUMINOUS CONCRETE
 - CONC. CONCRETE
 - GRAN. GRANITE
 - INVERT INVERT
 - RM RIM
 - TC TOP CURB
 - TW TOP WALL



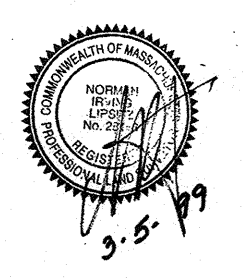
hse

HOWE SURVEYING ASSOCIATES, INC.

CIVIL ENGINEERS
&
LAND SURVEYORS

73 PRINCETON STREET
NO. CHELMSFORD, MA. 01863
(978) 251-3132

43 BUENA VISTA STREET
DEVENS, MA. 01432
(978) 772-1200



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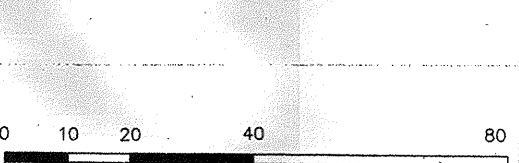
WINFIELD ROBBINS GARDENS

MASSACHUSETTS AVENUE ARLINGTON, MA

PREPARED FOR:

PAT LOHEED LANDSCAPE ARCHITECT
1310 BROADWAY STREET
SOMERVILLE, MA
617-623-4366

DATE	REVISION	BY



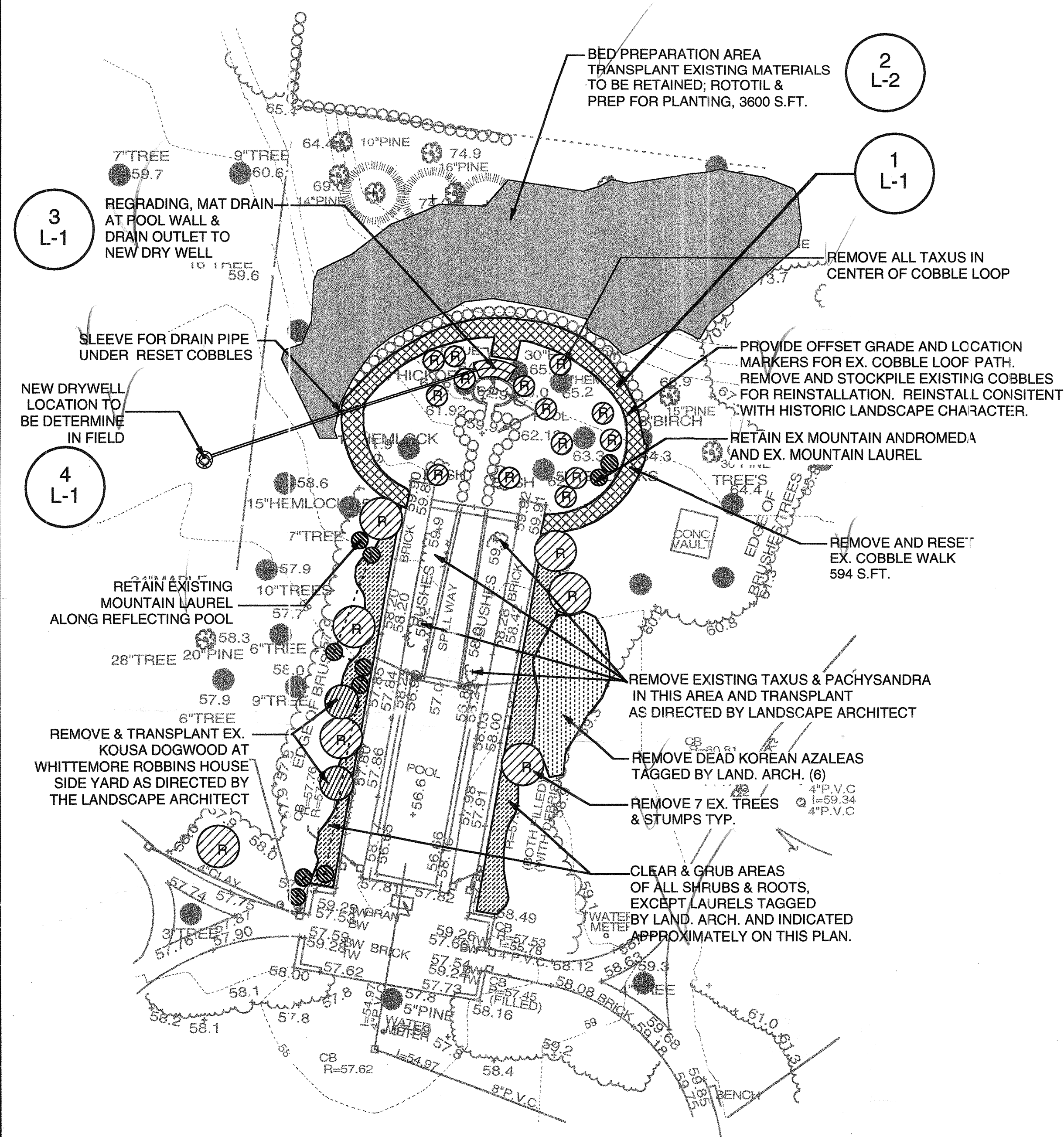
**TOWN HALL GARDENS
HISTORIC RESTORATION - DEM CONTRACT**

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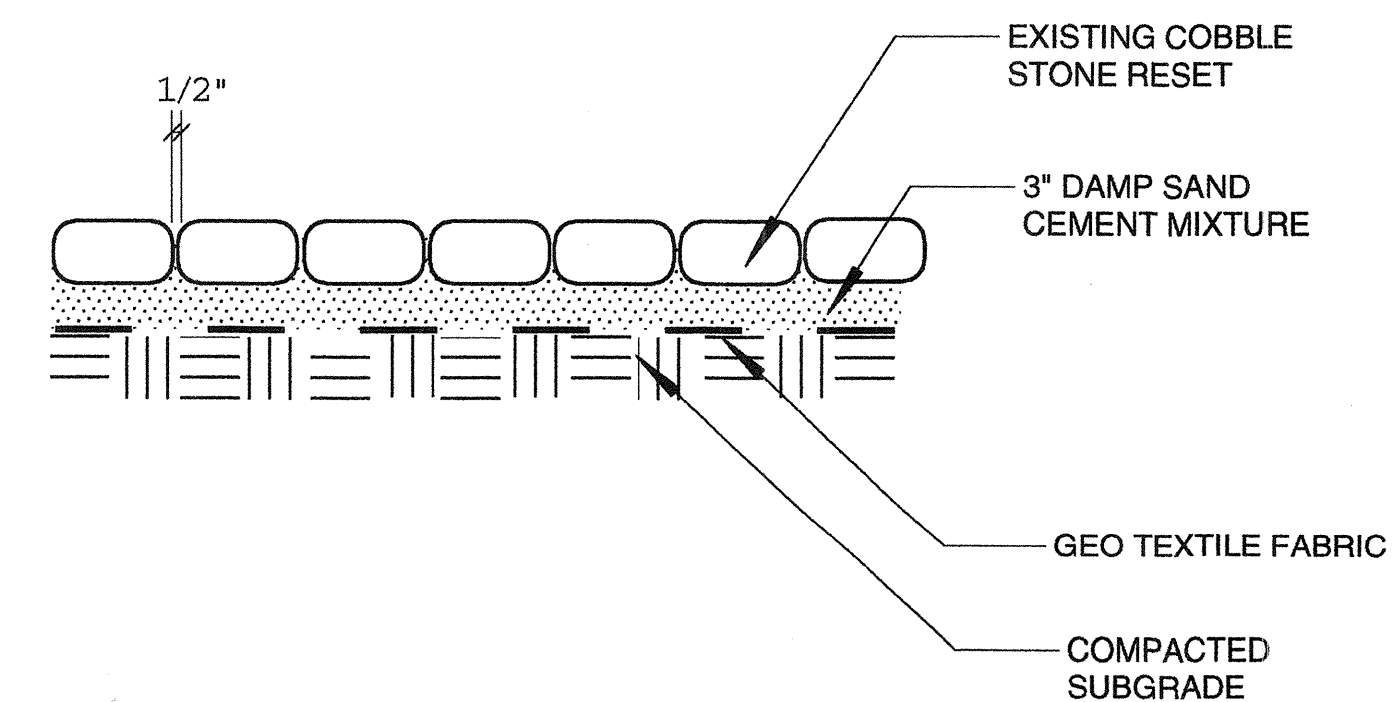
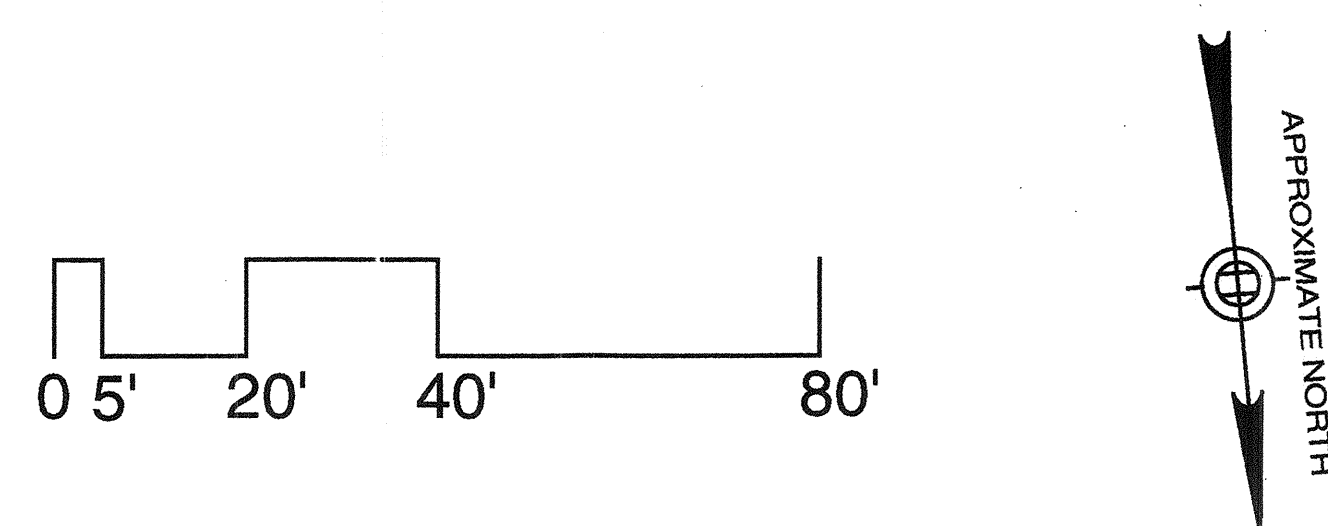
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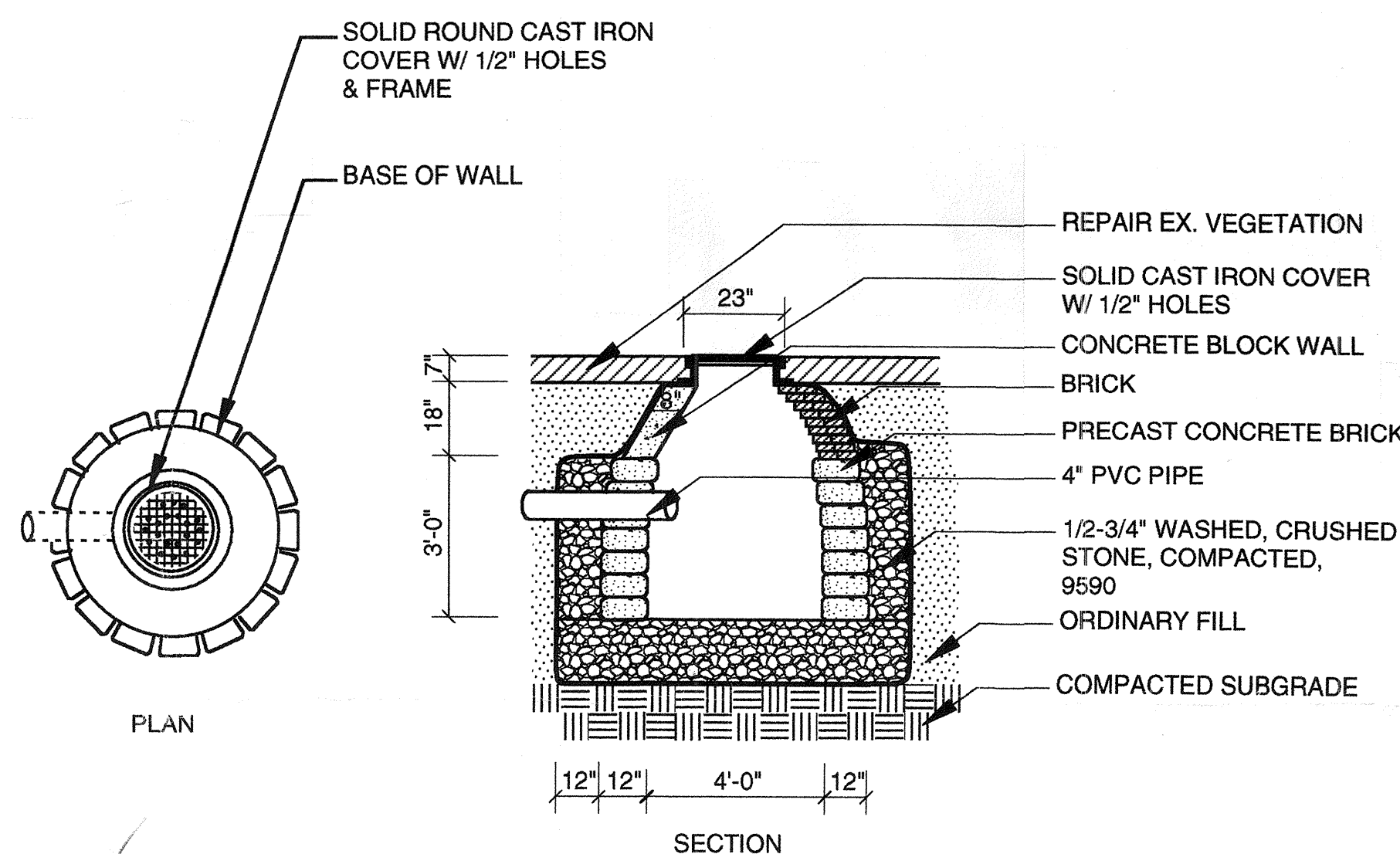




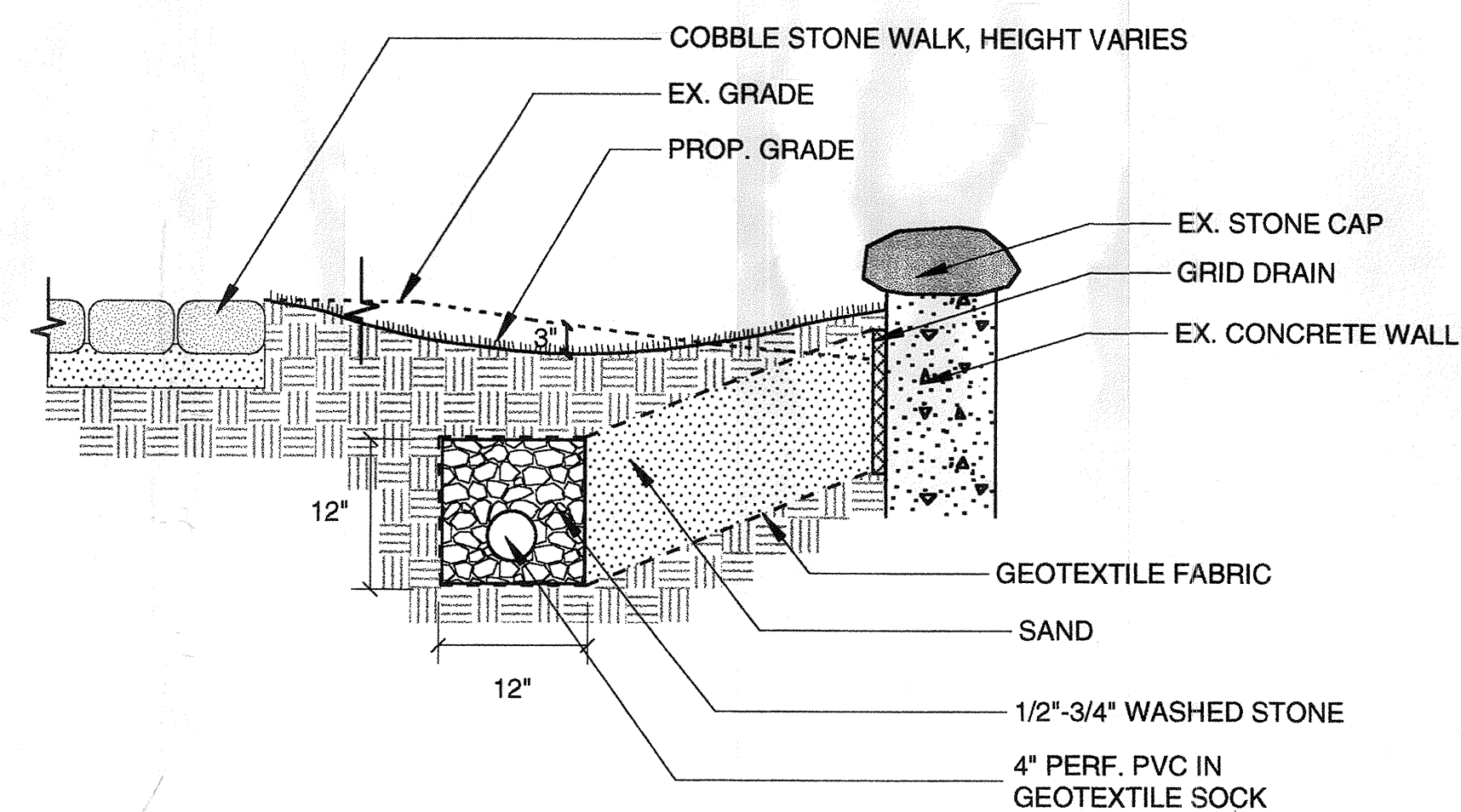
REMOVALS & DRAINAGE AREA A PLAN



1 L-1 COBBLE LOOP WALK
SCALE: 3/4"=1'



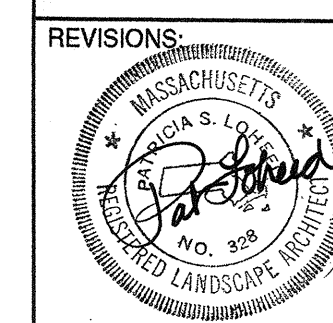
3 L-1 DRY WELL
SCALE: N.T.S.



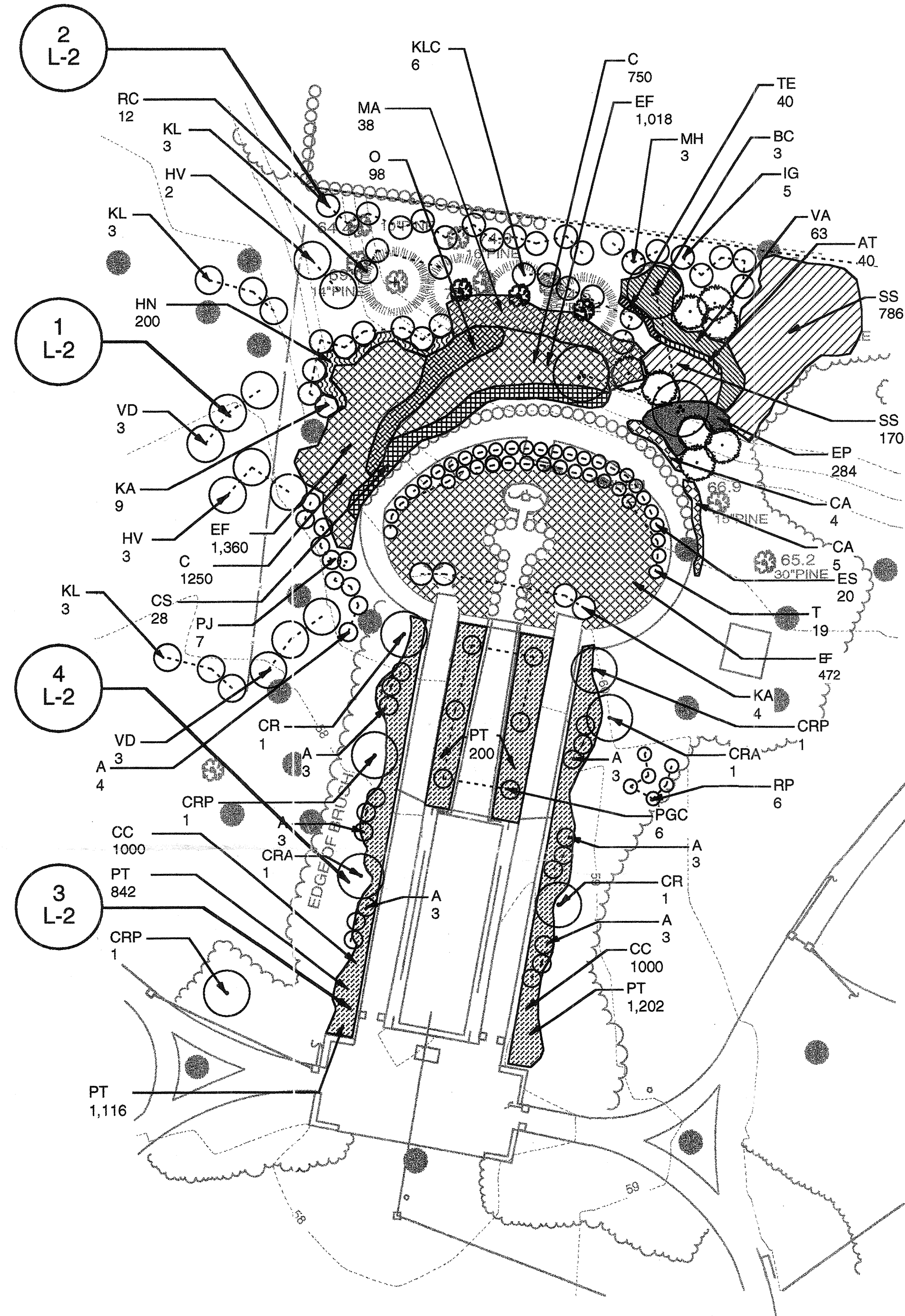
4 L-1 DRAIN AT BACK OF POOL
SCALE: N.T.S.

TOWN HALL GARDENS
HISTORIC RESTORATION - DEM CONTRACT

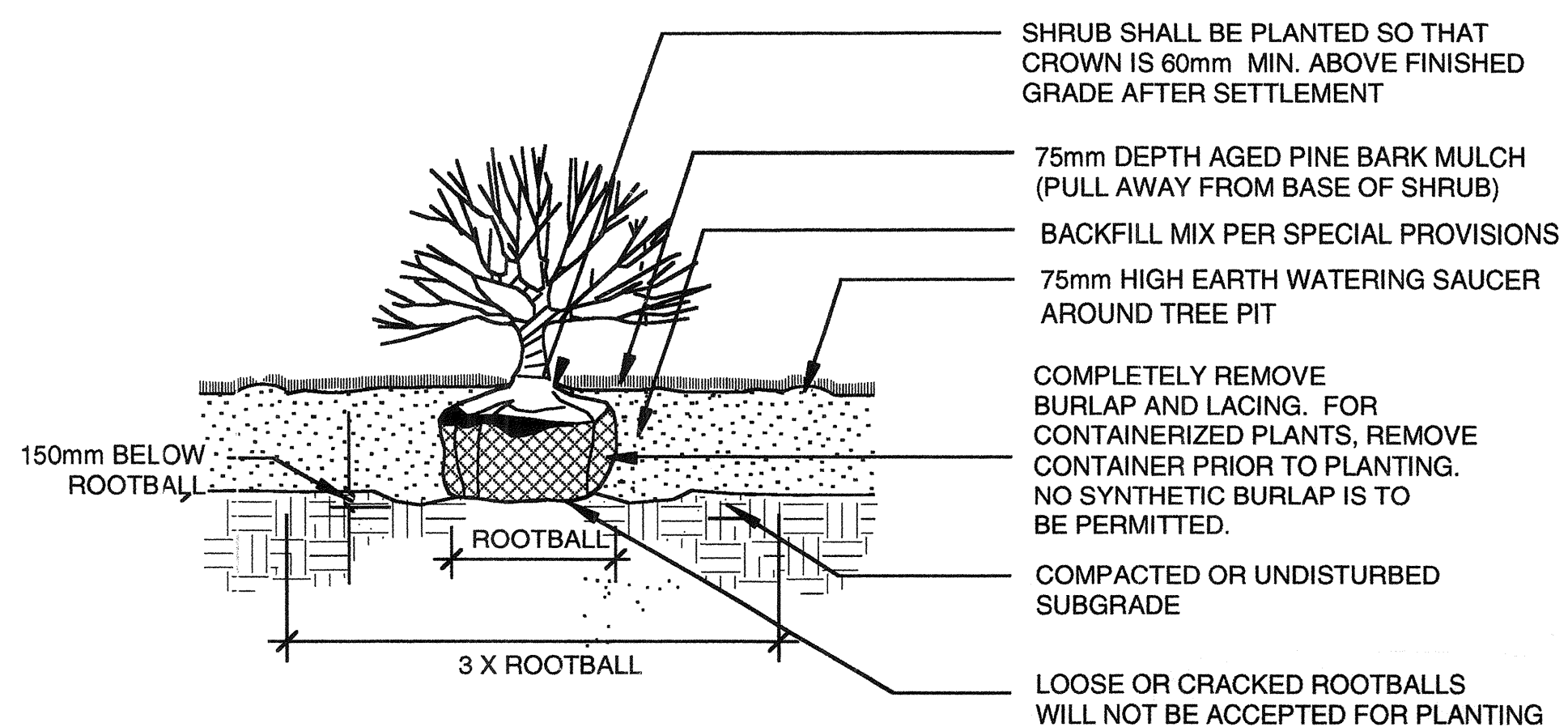
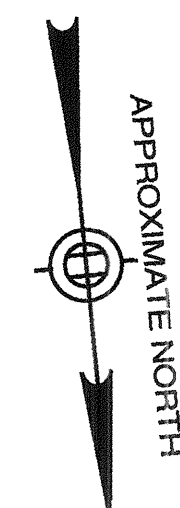
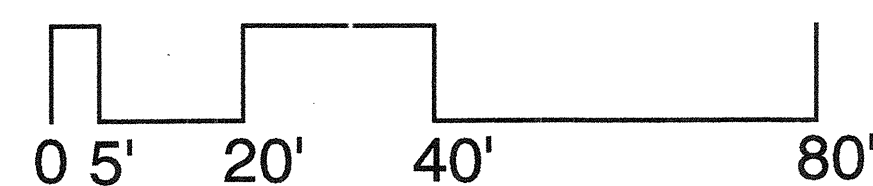
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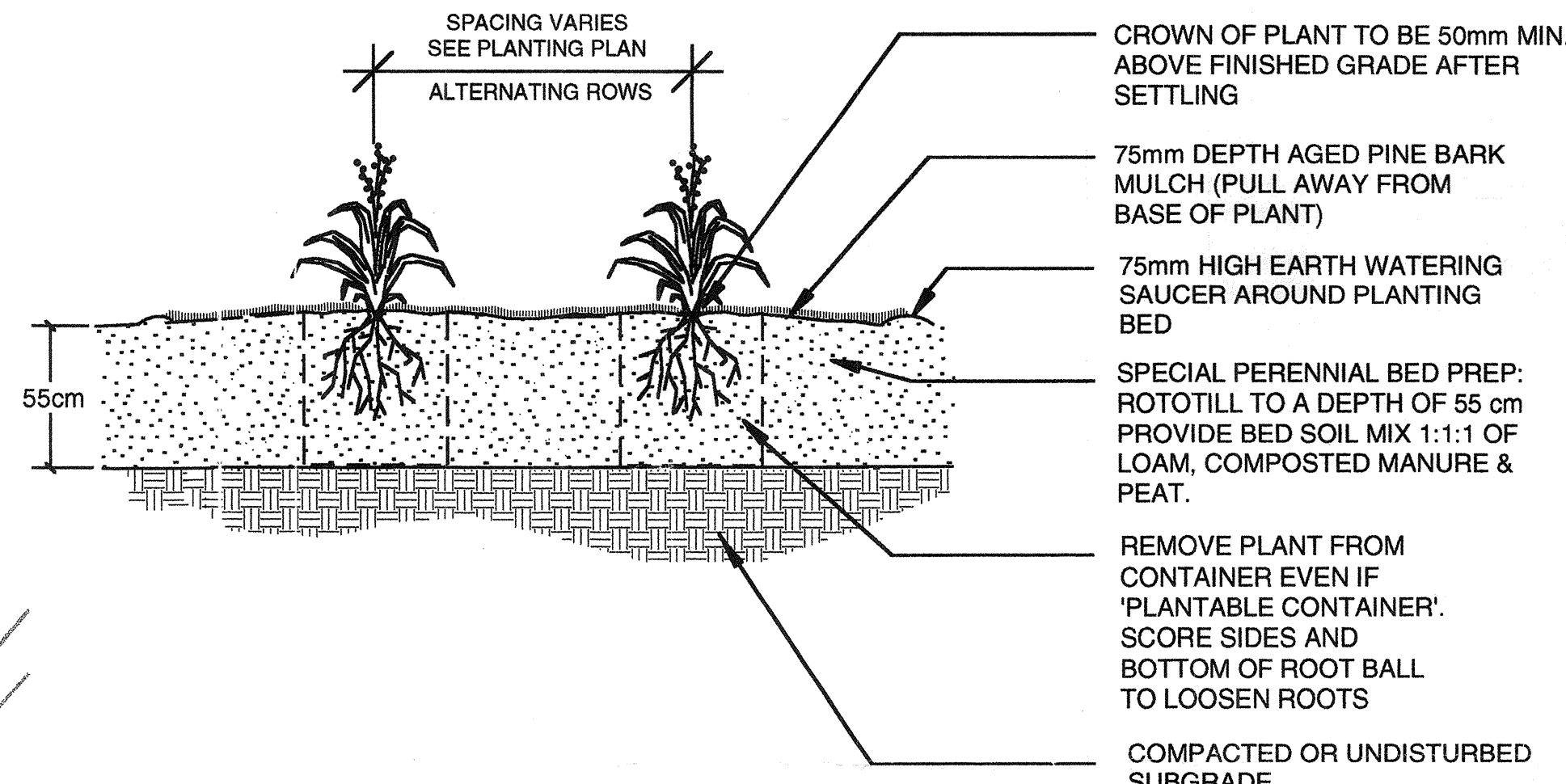
TITLE:
**DEMOLITION AND
 SITE PREPARATION PLAN
 AREA A**
 DRAWN BY: PL, JR
 CHECKED BY: PL
 DATE:
 3/18/99
L-1



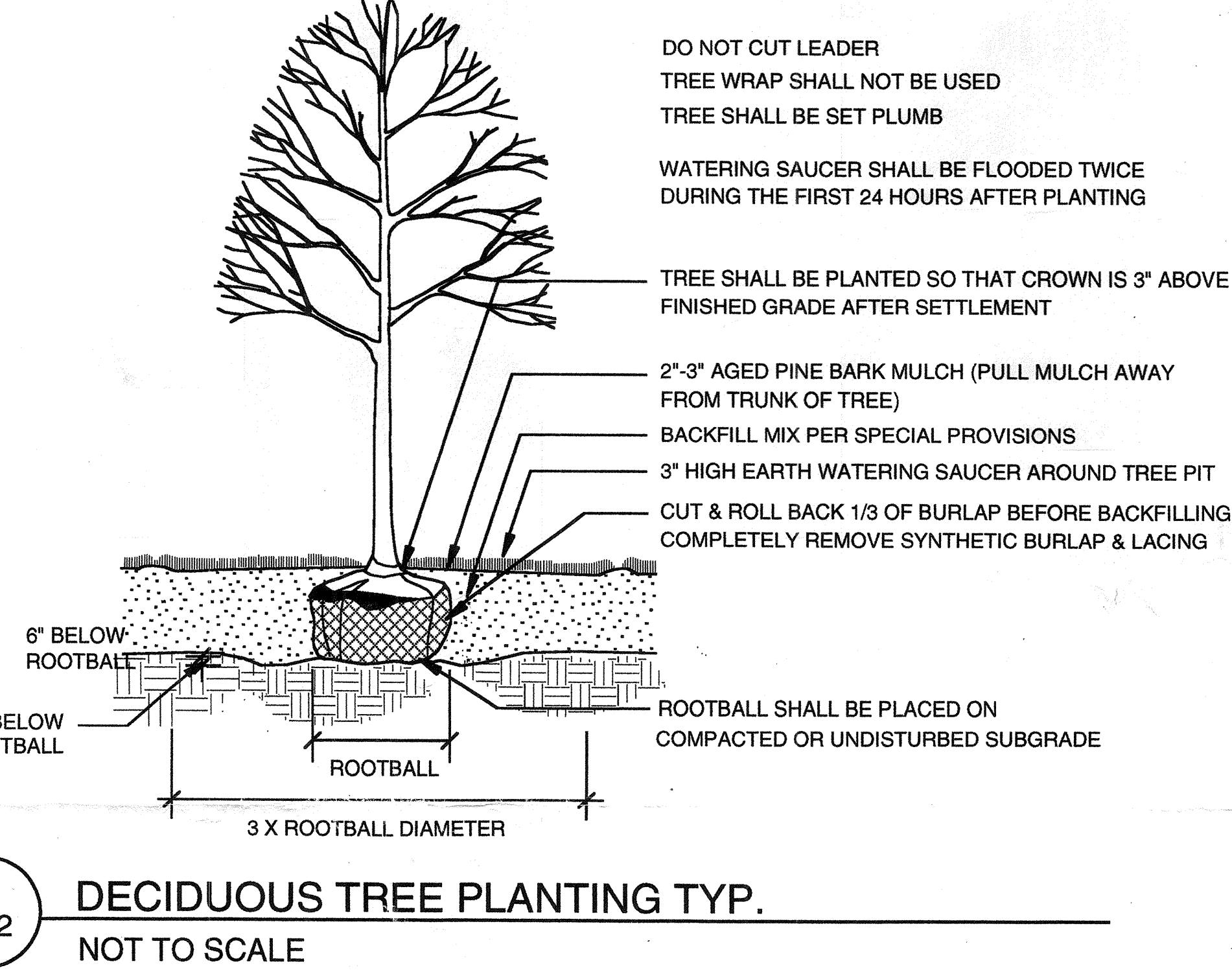
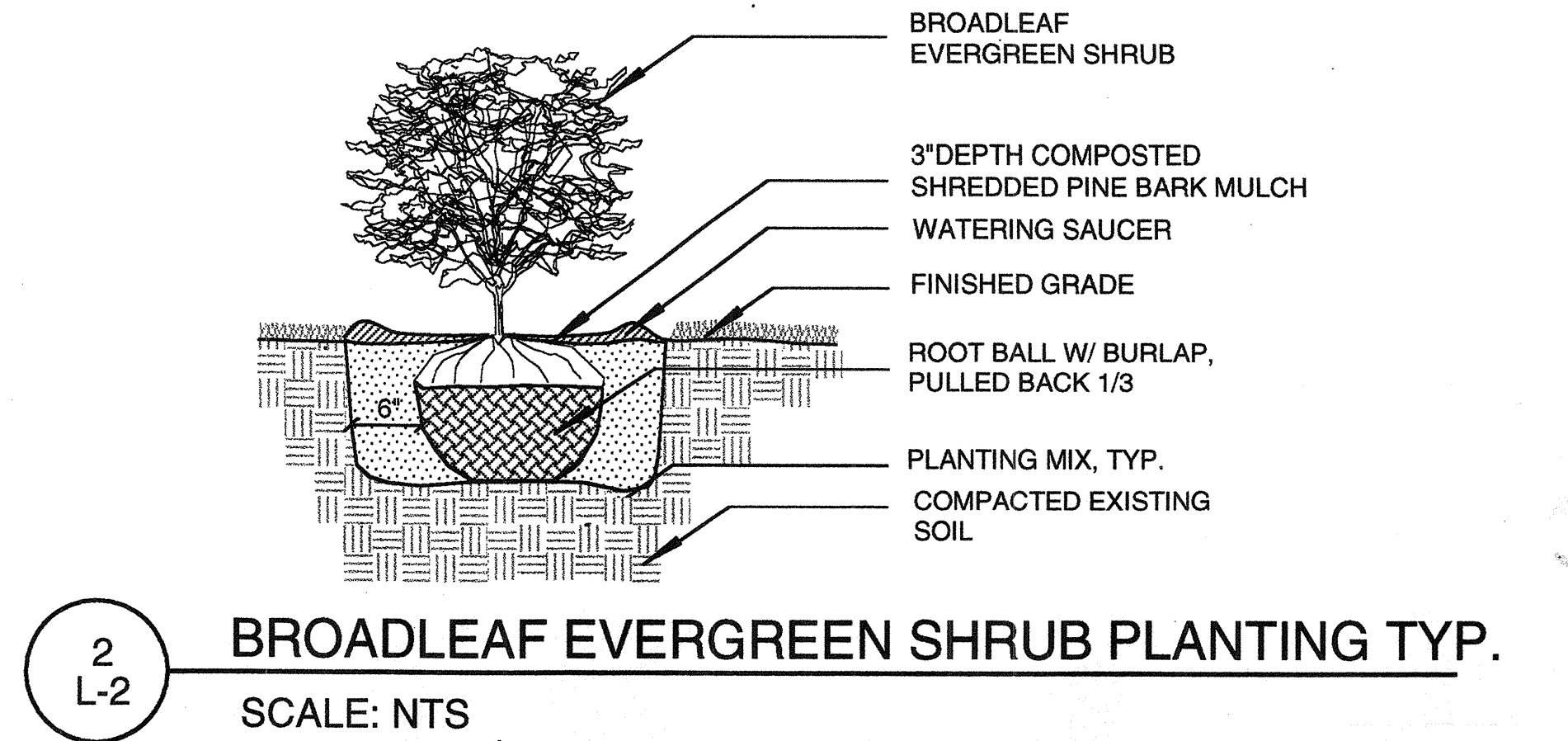
PLANTING AREA A PLAN



1 DECIDUOUS SHRUB PLANTING TYP. NOT TO SCALE



3 PERENNIAL PLANTING TYP. NOT TO SCALE



KEY	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	ROOT	NOTES	SPACING
TREES							
BC	BETULA Papyrifera	PAPER BIRCH - MULTI-STEMMED	3	8-10' HT.	B&B	SPECIMEN CLUMP	
CR	CORNUS RUTGERS 'RUTH ELLEN'	RUTH ELLEN RUTGERS DOGWOOD	2	8'HT.	B&B	TAGGED/ONHOLD	
CRP	CORNUS RUTGERS 'STELLAR PINK' HYBRID	STELLAR PINK RUTGERS DOGWOOD	3	7'HT.	B&B		
CRA	CORNUS RUTGERS 'AURORA'	AURORA RUTGERS DOGWOOD	2	8'HT.	B&B		
SHRUBS & GROUNDCOVERS							
A	AZALEA KAEMPFER 'DELAWARE VALLEY WHITE'	DELAWARE VALLEY WHITE AZALEA	22	24-30"	B&B		
CA	COTONEASTER APICULATA	CRANBERRY COTONEASTER	9	24-30"	CONT.		3' O.C.
CS	COTONEASTER SALICIFOLIUS REPANDENS	WILLOWLEAF COTONEASTER	28	24-30"	CONT.		3' O.C.
EP	EPIMEDIUM	EPIMEDIUM	284	1 GAL	CONT.		12" O.C.
ES	EUONYMUS FORTUNEI 'SARCOXIE'	SARCOXIE EUONYMOUS	20	18-24" SP.	B&B		
EF	EUONYMUS FORTUNEI 'COLORATUS'	PURPLE WINTERCREEPER	2,850	8-12"	2.25" POT		8"
HV	HAMAMELIS VIRGINICA	COMMON WITCHHAZEL	5	4-5'HT.	B&B		
IG	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	5	24-30"	CONT.		
MH	ILEX X MESERVEAE 'BLUE PRINCESS'	BLUE PRINCESS HOLLY	3	2.5-3'HT.	B&B	HEAVY	
KA	KALMIA ANGUSTIFOLIA	SHEEP LAUREL	13	18-24"SP	CONT.		
KL	KALMIA LATAFOLIA	MOUNTAIN LAUREL	9	3-4'	B&B		
KLC	KALMIA LATAFOLIA COMPACTA 'ELF'	COMPACT MOUNTAIN LAUREL 'ELF'	5	24-30"	B&B		
MA	MAHONIA AQUIFOLIUM	OREGON GRAPEHOLLY	38	18-24" SP.	CONT.		18" O.C.
PT	PACHYSANDRA TERMINALIS	JAPANESE SPURGE	3360	2 yr.	2.25" POTS		8" O.C.
PJ	PIERIS JAPONICA	JAPANESE ANDROMEDA	7	24-30"	B&B		
O	OSMUNDA CINNAMOMEA	CINNAMON FERN	98	1 GAL	CONT.		18" O.C.
SS	POLYGONATUM BIFLORA	SMALL SOLOMON SEAL	956	1 GAL	CONT.		18"
RC	RHODODENDRON CAROLINIANUM 'ALBA'	WHITE CAROLINA RHODODENDRON	12	3-4'HT.	B&B		
RP	RHODODENDRON POUKHANENSE	KOREAN AZALEA	6	24-36" SP.	B&B		
T	TAXUS CUSPIDATA 'GREENWAVE'	GREENWAVE YEW	19	24-30"	B&B		
VA	VACCINIUM ANGUSTIFOLIUM	LOW BUSH BLUEBERRY	63	18-24"SP.	CONT.		2' O.C.
VD	VIBURNUM DENTATUM	ARROWWOOD VIBURNUM	6	3-4'	B&B		
PERENNIALS & BULBS							
AT	ARISAEMA TRIPHYLLUM	JACK-IN-THE-PULPIT	40		BULB		8" O.C.
C	CROCUS SPP. MIXTURE:	SPECIES CROCUS					
	CROCUS 'GRAND MAITRE'	LIGHT BLUE CROCUS	1000		BULB	INTERPLANT	8" O.C.
	CROCUS PURPUREA GRANDIFLORA	DEEP PURPLE CROCUS	1000		BULB	INTERPLANT	8" O.C.
CC	CAMPANULA MIXTURE:						
	CAMPANULA CARPATICA 'LIGHT BLUE CLIPS'	BELLFLOWER	1000	5 PT.	CONT.	INTERPLANT	8" O.C.
	CAMPANULA CARPATICA 'DEEP BLUE CLIPS'	BELLFLOWER	1000	5 PT.	CONT.	INTERPLANT	8" O.C.
HN	HEPATIC A NOBIS	HEPATIC A	200	1 PINT	CONT.		8" O.C.
TE	TRILLIUM ERECTUM	WAKE ROBIN	40		BULB		8" O.C.

NOTES:

- SHRUBS SHALL BE SET PLUMB
- WATER BY FLOODING TWICE IN FIRST TWO HOURS
- EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING MIX
- RAISE AND REPLANT ANY SHRUBS WHICH SETTLE MORE THAN 75mm AFTER PLANTING AND WATERING IN
- WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING. WATER AND MAINTAIN AS PER STANDARD SPECIFICATIONS

TOWN HALL GARDENS
HISTORIC RESTORATION - DEM CONTRACT

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617-623-4366 • FAX 617-623-4362

REVISIONS:

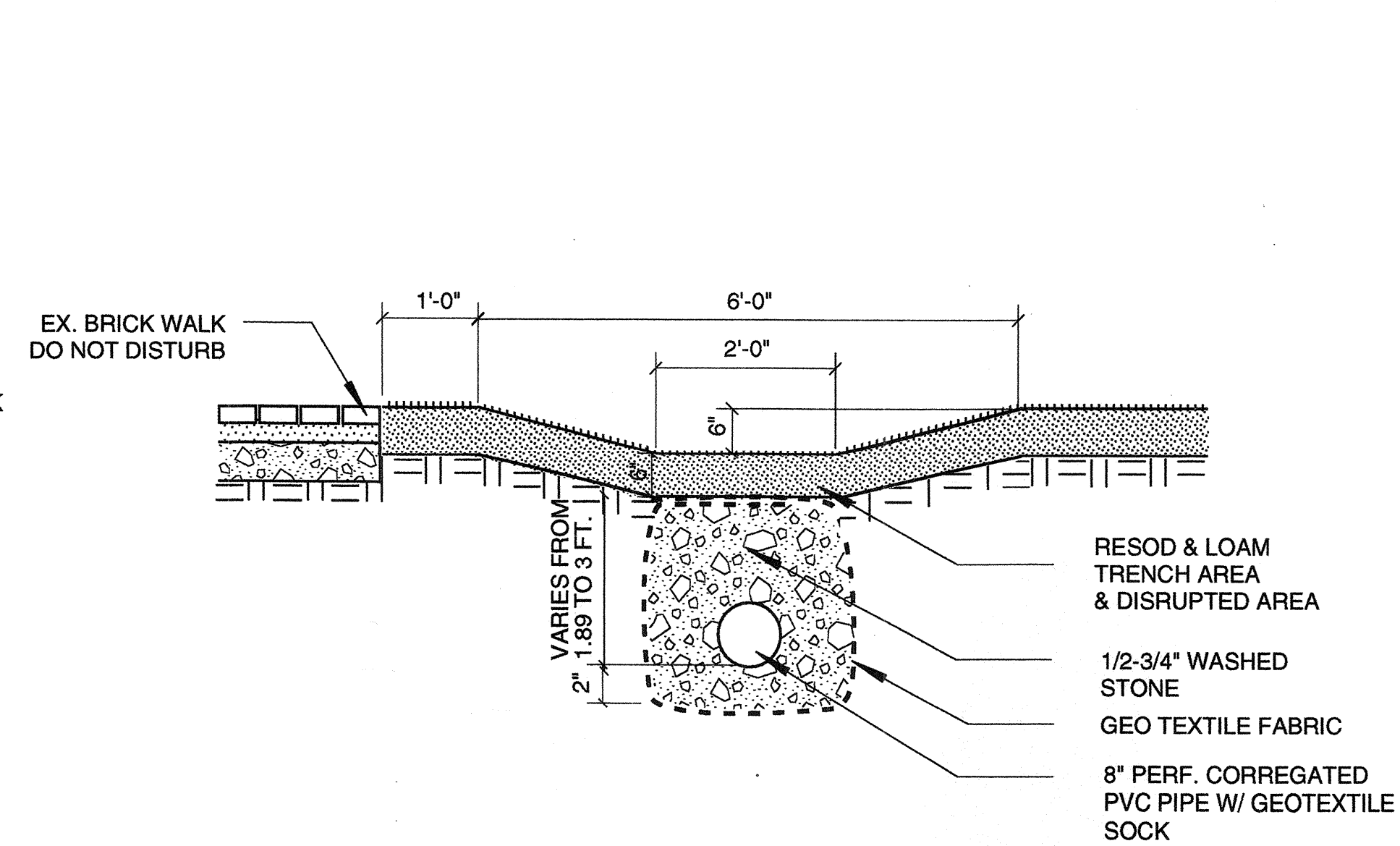
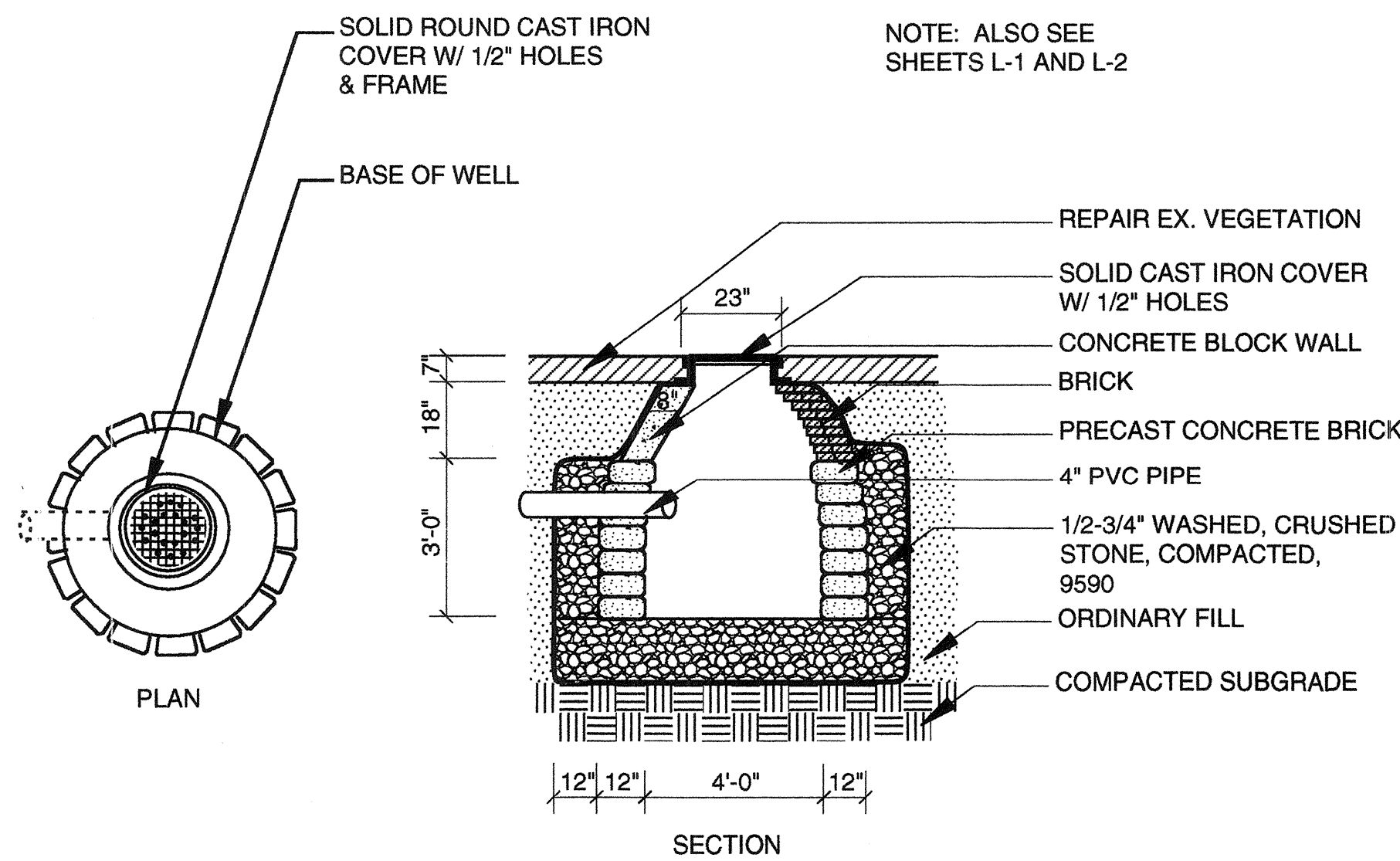
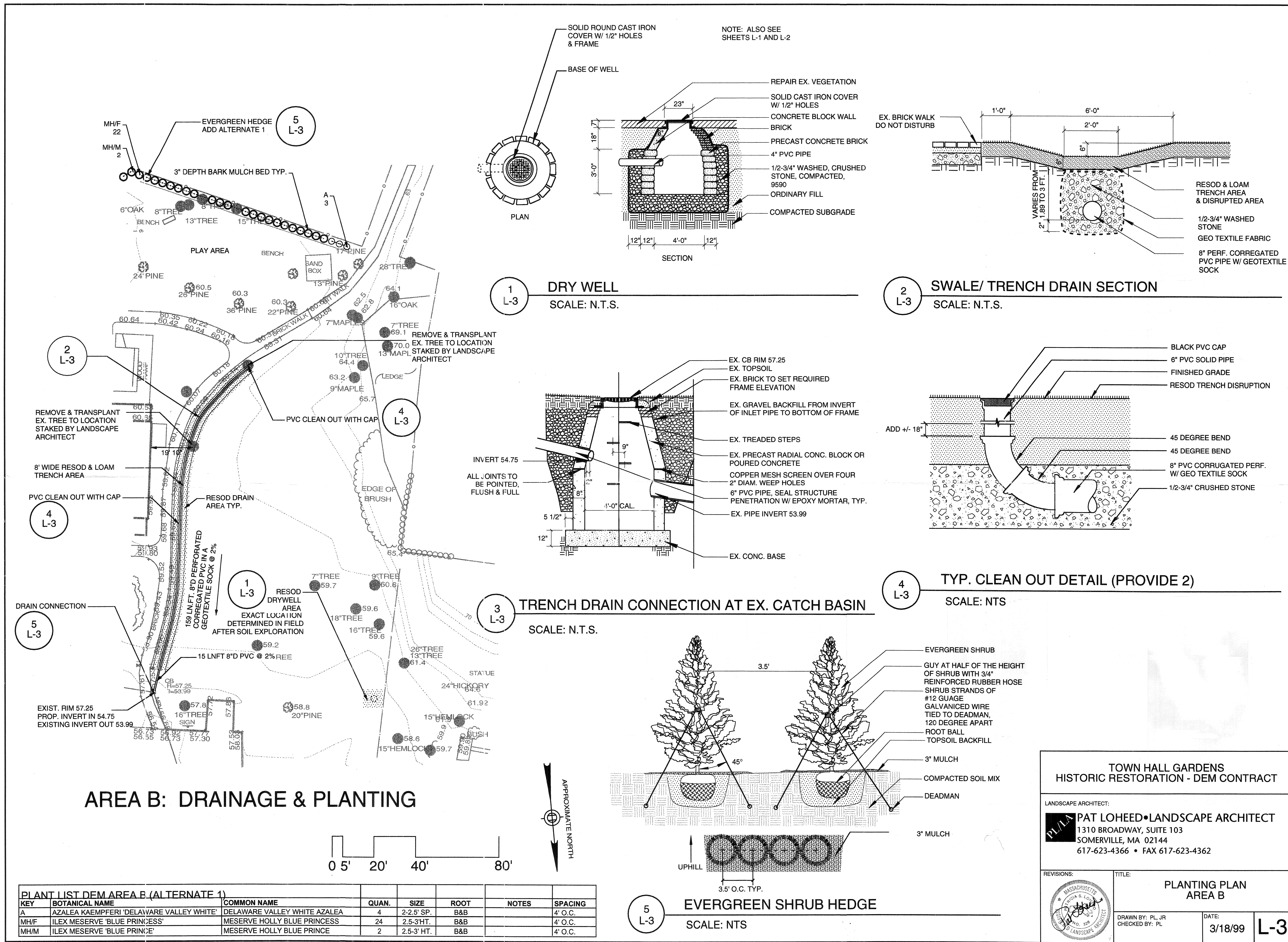


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**PLANTING PLAN
AREA A**

DRAWN BY: PL JR
CHECKED BY: PL

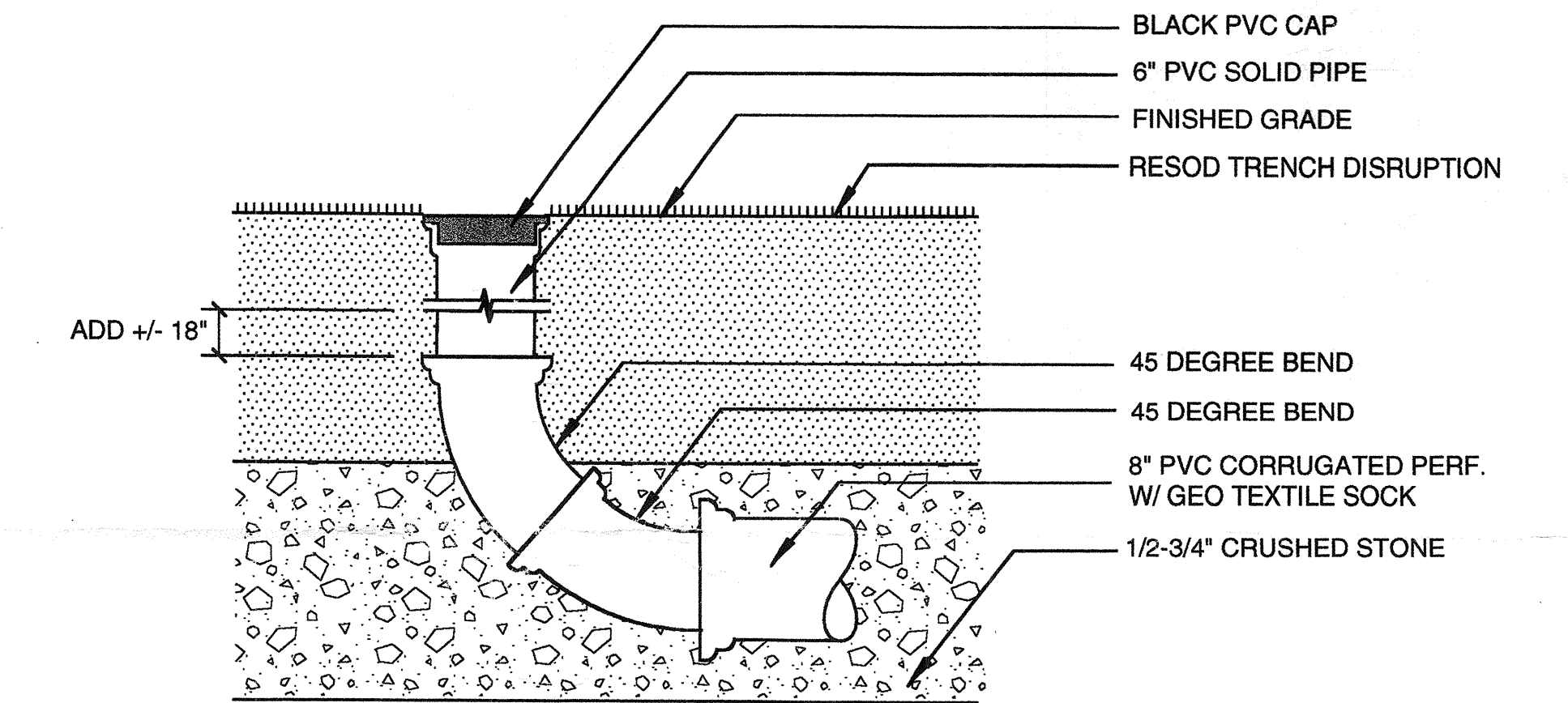
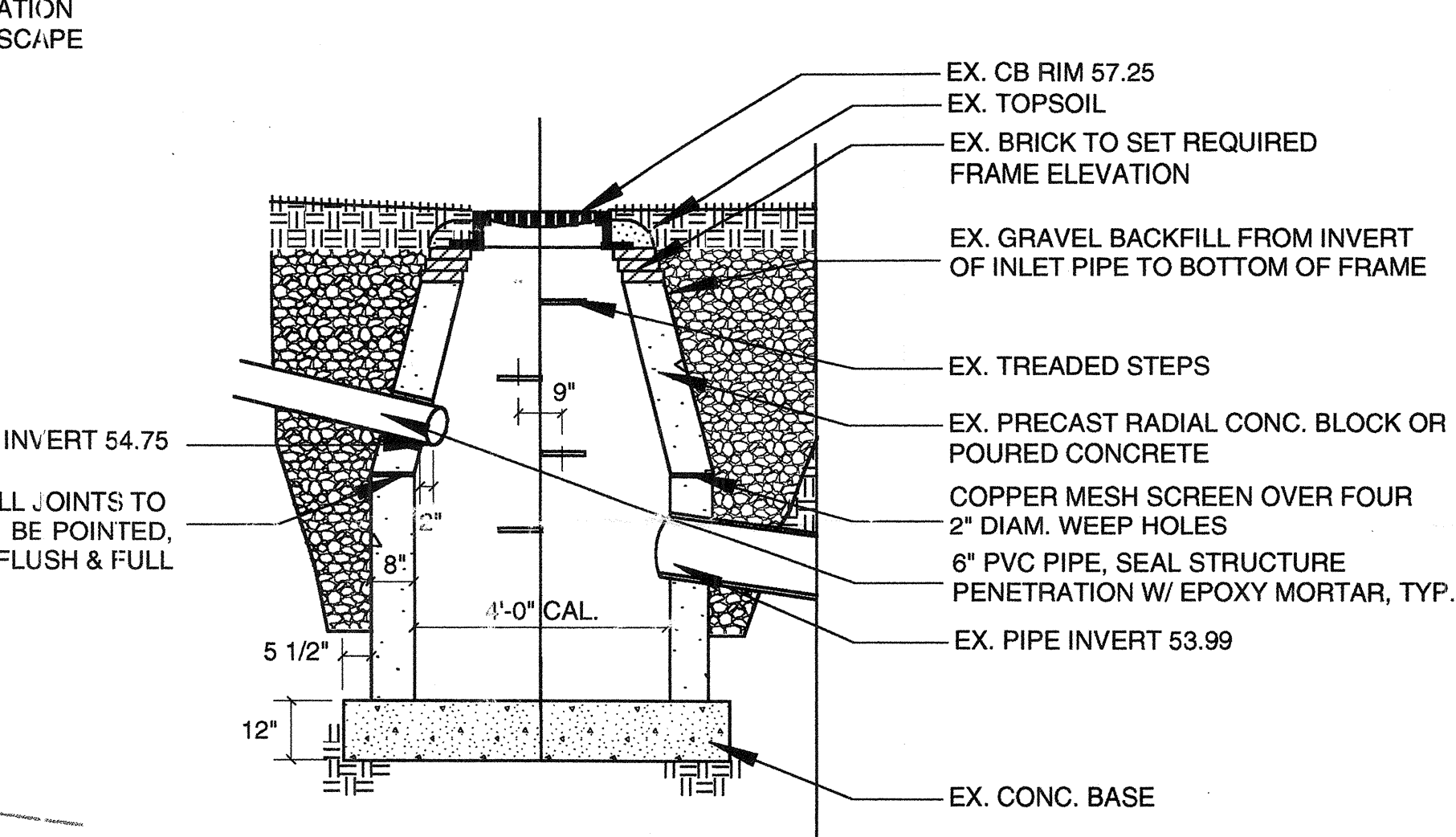
DATE:
3/18/99

L-2



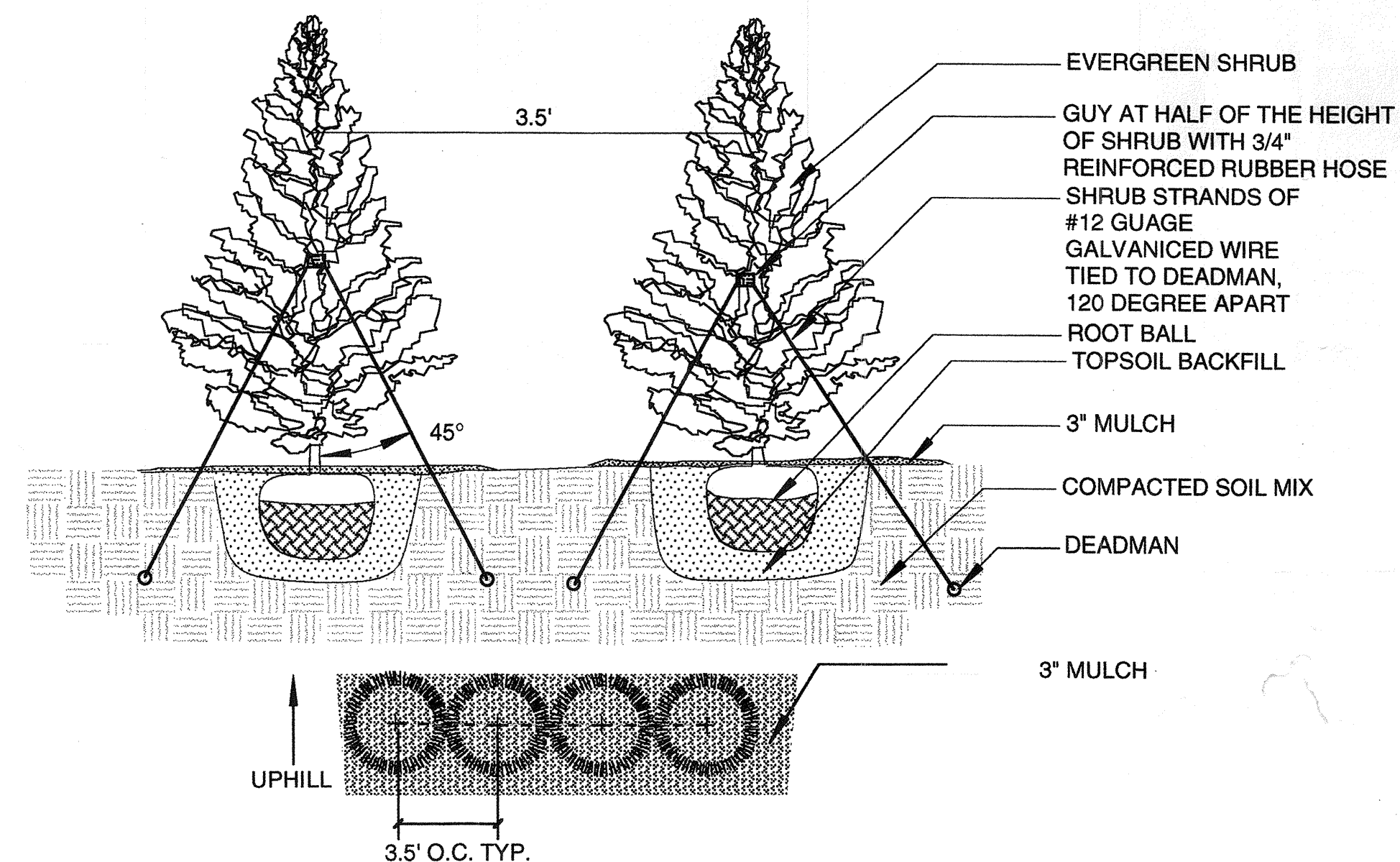
1 L-3 DRY WELL
SCALE: N.T.S.

2 L-3 SWALE/ TRENCH DRAIN SECTION
SCALE: N.T.S.



3 L-3 TRENCH DRAIN CONNECTION AT EX. CATCH BASIN
SCALE: N.T.S.

4 L-3 TYP. CLEAN OUT DETAIL (PROVIDE 2)
SCALE: NTS



5 L-3 EVERGREEN SHRUB HEDGE
SCALE: NTS

AREA B: DRAINAGE & PLANTING

PLANT LIST DEM AREA B (ALTERNATE 1)						
KEY	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	ROOT	NOTES
A	AZALEA KAEMPFERI 'DELAWARE VALLEY WHITE'	DELAWARE VALLEY WHITE AZALEA	4	2-2.5' SP.	B&B	4' O.C.
MH/F	ILEX MESERVE 'BLUE PRINCESS'	MESERVE HOLLY BLUE PRINCESS	24	2.5-3' HT.	B&B	4' O.C.
MH/M	ILEX MESERVE 'BLUE PRINCE'	MESERVE HOLLY BLUE PRINCE	2	2.5-3' HT.	B&B	4' O.C.

TOWN HALL GARDENS
HISTORIC RESTORATION - DEM CONTRACT

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REVISIONS:

TITLE:
**PLANTING PLAN
AREA B**

DRAWN BY: PL, JR
CHECKED BY: PL

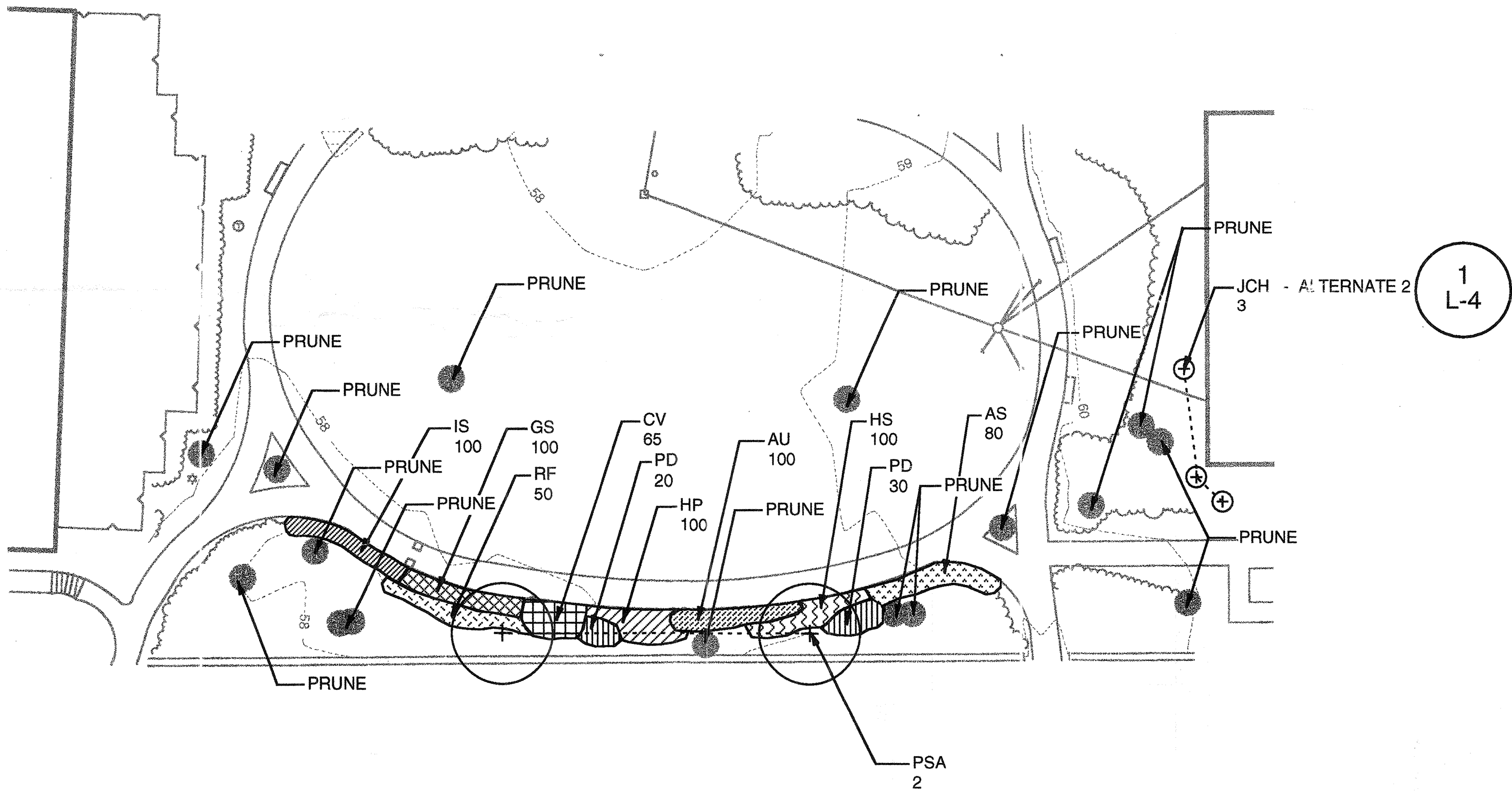
DATE:
3/18/99

L-3

ALTERNATE 2: TREE PRUNING AREA C
TREE PRUNING SHALL BE FOR FORM AND SAFETY PURPOSES AND DONE UNDER THE SUPERVISION OF A MASS. CERTIFIED ARBORIST UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT.

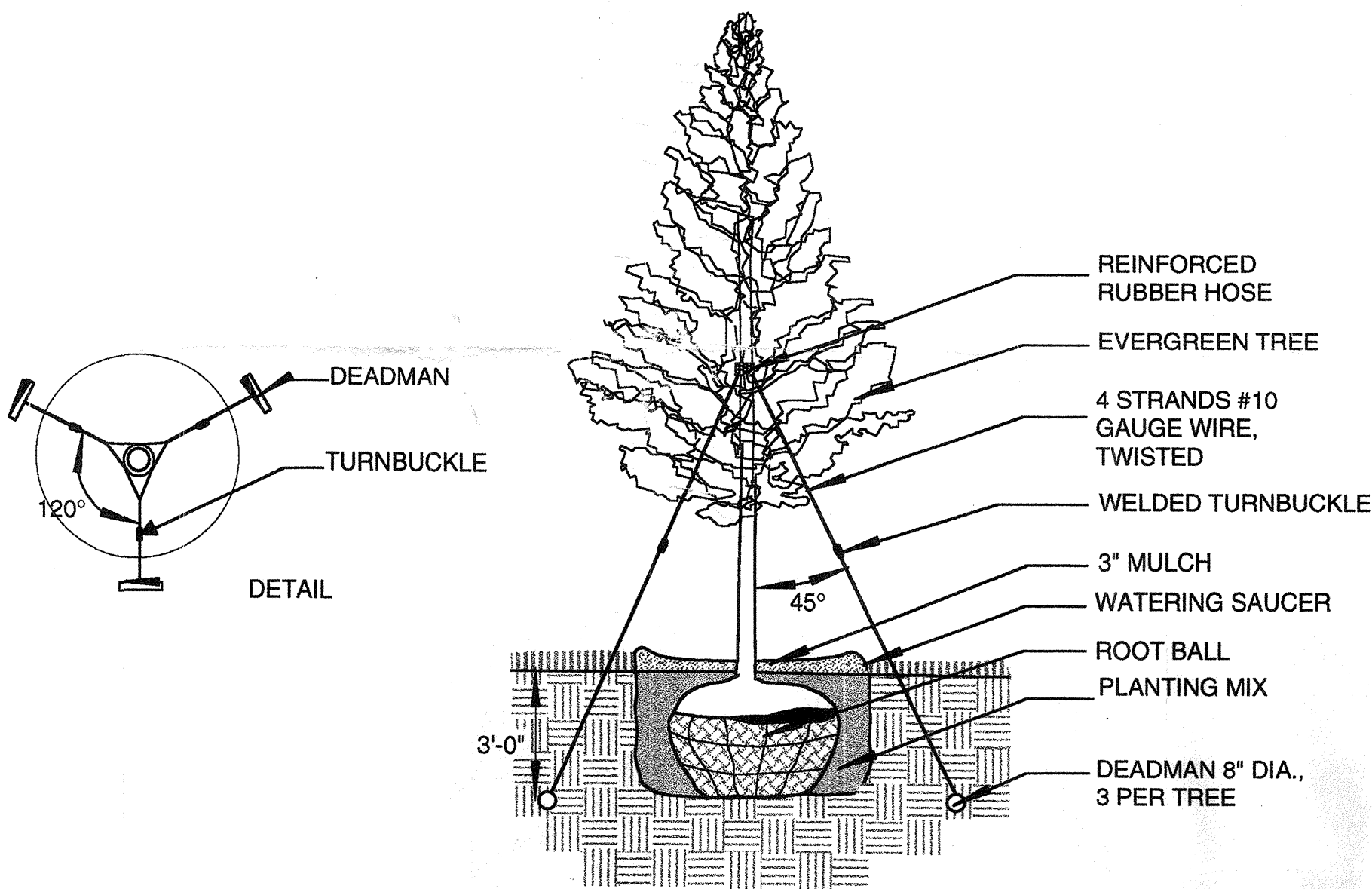
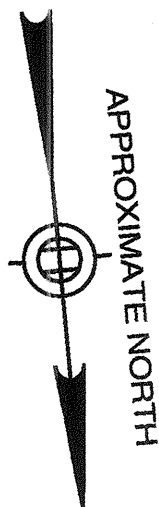
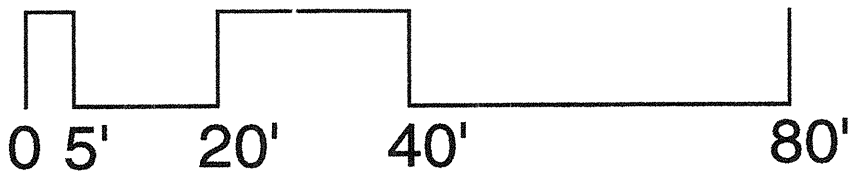
PLANT LIST DEM AREA C (ALTERNATE 3)							
KEY	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	ROOT	NOTES	SPACING
JCH	JUNIPERUS CHIN. HETZI	GREEN COLUMNAR CHINESE JUNIPER	3	6-7' HT.	B&B	SPECIMEN	
PSH	PRUNUS SUBHIRTILLA 'AUTUMNALIS'	AUTUMN FLOWERING CHERRY	2	3-3.5" CAL.	B&B	SPECIMEN	

PLANT LIST DEM AREA C (ALTERNATE 4)							
KEY	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	ROOT	NOTES	SPACING
PERENNIALS							
AS	ANEMONE SYLVESTRIS	SNOWDROP ANEMONE	80	3" POT	CONT.		12" O.C.
AU	AURINIA SAXATILIS 'COMPACTUM'	BASKET OF GOLD	100	3" POT	CONT.		12" O.C.
CV	COREOPSIS VERTICILLATA 'MOONBEAM'	TICKSEED	65	1 QT.	CONT.		15" O.C.
GS	GERANIUM SANGUINUM 'ALBUM'	WHITE CRANESBILL	100	#1 POT	CONT.		12" O.C.
HS	HEUCHERA SANGUINIA 'LEUCHTKAEFER'	CORAL BELLS	100	#1 POT	CONT.		12" O.C.
HP	HYPERICUM POLYPHYLLUM	ST. JOHN'S WORT	100	3" POT	CONT.		12" O.C.
IS	IBERIUS SEMPERVIRENS 'OCTOBER GLORY'	CANDY TUFT	100	5 PT.	CONT.		12" O.C.
PD	PENSTEMON DIGITALIS 'HUSKER RED'	BEARD TONGUE	50	#1 POT	CONT.		18" O.C.
RF	RUDBEKIA FULGIDA	BLACK-EYED SUSAN	50	1 QT.	CONT.		18" O.C.



PLANTING PLAN AREA C

- 1. NEW TREE PLANTING IN PLANTING AREA C IS ADD ALTERNATE 2.
- 2. PRUNING OF EXISTING TREES IN PLANTING AREA C IS ADD ALTERNATE 3.

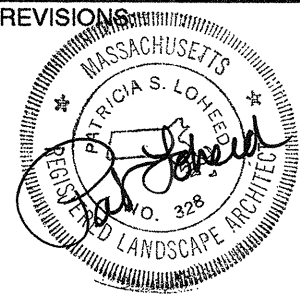


1 L-4 EVERGREEN TREE PLANTING
SCALE: NTS

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HISTORIC RESTORATION - DEM CONTRACT

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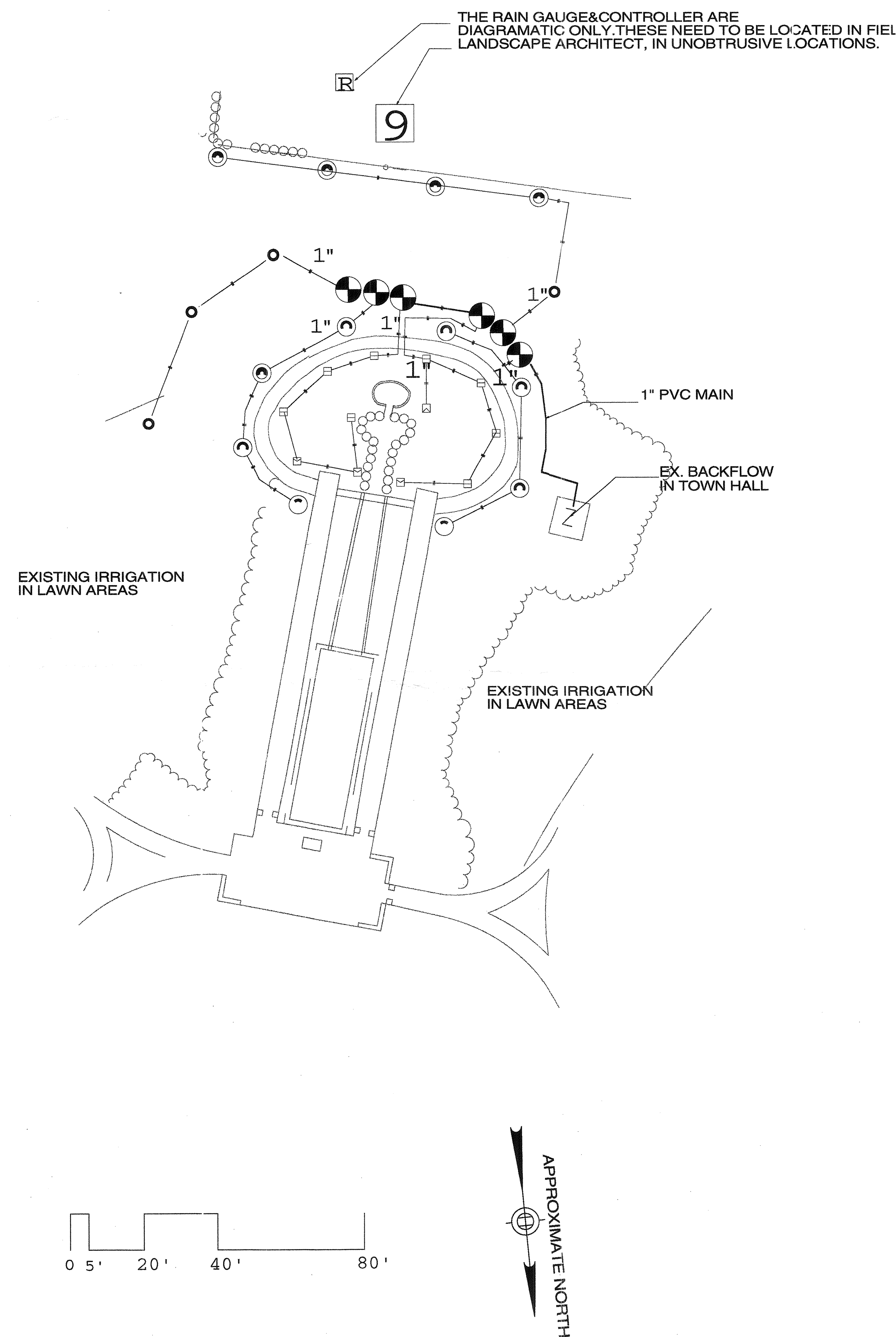


TITLE:
**PLANTING PLAN
AREA C**

DRAWN BY: PL, RJ, JR
CHECKED BY: PL

DATE:
3/18/99

L-4



QTY DESCRIPTION

100'	-	PVC MAIN - CLASS 200 1" SW PVC PIPE
700'	-	POLY LATERALS - 100 PSI 1" POLY PIPE
1	⊗	BACKFLOW ASSEMBLY - FEBCO 825Y 1" RPD ON 1" COPPER
6	⊗	TORO 294-15-04 1" PLASTIC VALVE ASSEMBLY
1	□	TORO RAIN GAUGE MODEL 850-74
1	□	TORO VISION II PLUS CONTROLLER MODEL V2-M09 W/ RAIN GAUGE IN ENCLOSURE
2	⊙	TORO 300 1/4 ARC STREAM ROTOR W/ 03 NOZZLE
4	⊙	TORO 300 1/2 ARC STREAM ROTOR W/ 03 NOZZLE
6	⊙	TORO 300 1/5 ARC STREAM ROTOR W/ 03 NOZZLE
4	⊙	TORO 300 FC STREAM ROTOR W/ 03 NOZZLE
8	⊙	TORO 570 6" SPRAY HEAD W/ 15-H NOZZLE
3	⊙	TORO 570 6" SPRAY HEAD W/ 15-T NOZZLE
1	⊙	TORO 570 6" SPRAY HEAD W/ 15-TQ NOZZLE

1) SYSTEM IS DESIGNED FOR 16 GPM AT 65 PSI REQUIRED AT THE POINT OF CONNECTION.

2) INSTALLATION INSTRUCTIONS:

HEADS: INSTALL ON FUNNY PIPE SWING JOINTS. SET TO GRADE. BACKFILL IN CLEAN MATERIAL. PROPERLY ADJUST THROW, RADIUS, AND HEAD LOCATION SO THE SPRAY IS NOT DISRUPTED BY THE SHRUBBERY.

VALVES: INSTALL 3 PER STANDARD VALVE BOX. USE DBY SPLICE KITS. HIDE VALVE BOXES IN THE LANDSCAPE WHERE POSSIBLE. INSTALL A 1" QUICK COUPLER ON A GALVANIZED TEE IN AN ECONO VALVE BOX FOR BLOW-OUT, AFTER THE RPD.

CONTROLLER: WALL MOUNT IN A MCKINSTRY ENCLOSURE MODEL 56-20126LP WITH THE A.C. UNIT. RUN A DEDICATED, 115 VAC LINE FOR POWER. MOUNT THE RAIN GAUGE AT THE HIGHEST AVAILABLE, COMMON POINT, FACING THE SUN SO THE ELEMENT WILL PROPERLY DRY. CONTROLLER SHALL BE GROUNDED. RUN CONDUIT FOR ALL ABOVE GROUND WIRES, INCLUDING THE WIRES TO THE RAIN GAUGE.

WATER TAP & BACKFLOW: EXISTING TAP IN CONCRETE VAULT AS SHOWN ON THE PLAN. BACKFLOW IS EXISTENT, NIC. ON UNIONS SO IT CAN BE REMOVED IF NECESSARY. ENSURE THAT THERE IS A PROPERLY FUNCTIONING SHUT-OFF VALVE.

PIPE & WIRE: TRENCH OR PULL 12" DEEP. INSTALL PIPE & WIRE IN THE SAME TRENCHES WHERE POSSIBLE.

3) DESIGN IS DIAGRAMMATIC. CONTRACTOR SHALL FIELD LOCATE ALL ITEMS WITHOUT COMPROMISING THE INTEGRITY OF THIS DESIGN. THE SPRINKLER HEAD LOCATIONS SHALL BE CAREFULLY SELECTED IN THE FIELD SO THE SPRAYS OF THE HEAD ARE NOT DISRUPTED BY ANY OF THE PLANTINGS OR SHRUBBERY. USE RISERS WHERE NECESSARY. CONTRACTOR SHALL PROVIDE A 1"=20', ACCURATE PLOT PLAN TO THE OWNER, BEFORE FINAL PAYMENT IS MADE.

4) AVERAGE RUN TIMES PER ZONE: 300- 20 MINUTES PER DAY (MIN/DAY); 570- 8 MIN/DAY. END USER SHALL PROPERLY ADJUST RUN TIMES FOR CHANGING FIELD CONDITIONS.

5) IRRIGATION CONTRACTOR IS RESPONSIBLE FOR, BUT NOT LIMITED TO THE COMPLETE INSTALLATION OF THIS IRRIGATION SYSTEM. FOLLOW ALL APPLICABLE CODES AND LAWS. CONTRACTOR SHALL NOTIFY DIG-SAFE" IN THE STATE OF MASSACHUSETTS PRIOR TO THE COMMENCEMENT OF WORK. IRRIGATION CONTRACTOR WORK INCLUDES: ATTACHING TO THE EXISTING WATER TAP, CONTROLLER AND RAIN GAUGE INSTALLATION, SLEEVING IF NECESSARY, ALL IRRIGATION WORK, AND RELATED ITEMS. THE OWNER SHALL ENSURE THAT THIS WATER SUPPLY IS ADEQUATE ENOUGH FOR THIS SYSTEM (SEE NOTE #1), PROVIDE THE POWER SUPPLY FOR THE CONTROLLER (115 VAC), AND RELATED ITEMS.

System Designed By:

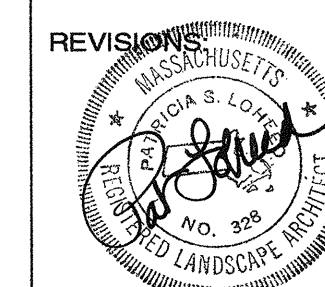
IDS
Irrigation Design Services

157 Moody Road, Enfield, Connecticut
06082
Tel: (860) 763-3581 Fax: (860) 763-5550

TOWN HALL GARDENS DEM CONTRACT Ph 2A

LANDSCAPE ARCHITECT:

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TITLE:

**IRRIGATION PLAN
AREA A**

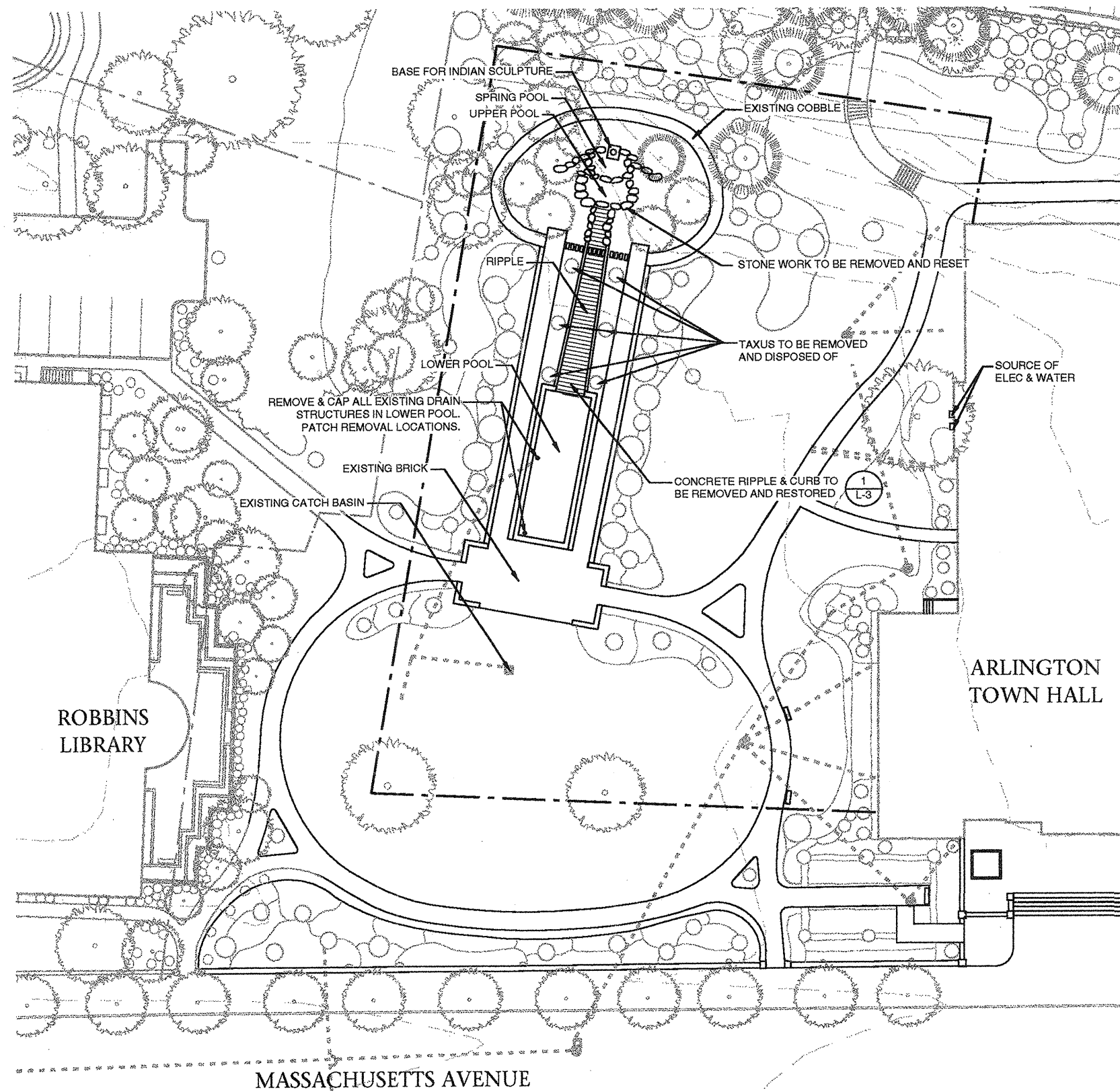
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3/17/99

L-5

WINFIELD ROBBINS MEMORIAL GARDENS HISTORIC RESTORATION PHASE 1-A

TOWN OF ARLINGTON MASSACHUSETTS



EXISTING CONDITIONS & SITE PREPARATION PLAN

DRAWINGS:

- L-1 EXISTING CONDITIONS / SITE PREPARATION
- L-2 LAYOUT / UTILITIES
- L-3 POOL LAYOUT / DETAILS
- L-4 FOUNTAIN DIAGRAM / DETAILS
- L-5 FOUNTAIN DETAILS
- L-6 DETAILS FOUNTAIN SYSTEM
- L-7 DETAILS

LEGEND:

- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- LIMIT OF WORK
- - - - - EXISTING DRAIN
- EXISTING CATCH BASIN
- EXISTING DRAIN STRUCTURE



0 5' 20' 40' 80'

WINFIELD ROBBINS MEMORIAL GARDENS
RESTORATION PHASE 1-A

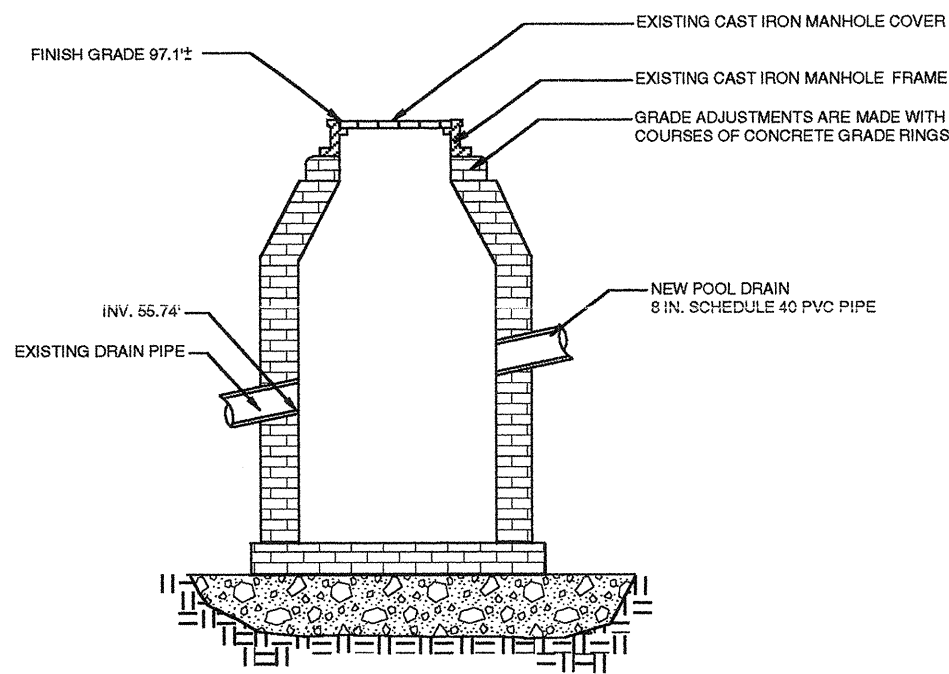
LANDSCAPE ARCHITECT:
PAT LOHEED • LANDSCAPE ARCHITECT
1310 BROADWAY, SUITE 103
SOMERVILLE, MA 02144
617-623-4366 • FAX 617-623-4362

REVISIONS:	TITLE: EXISTING CONDITIONS / SITE PREPARATION		
DRAWN BY: PL TH CHECKED BY: PL	DATE: 4/22/98	L-1	

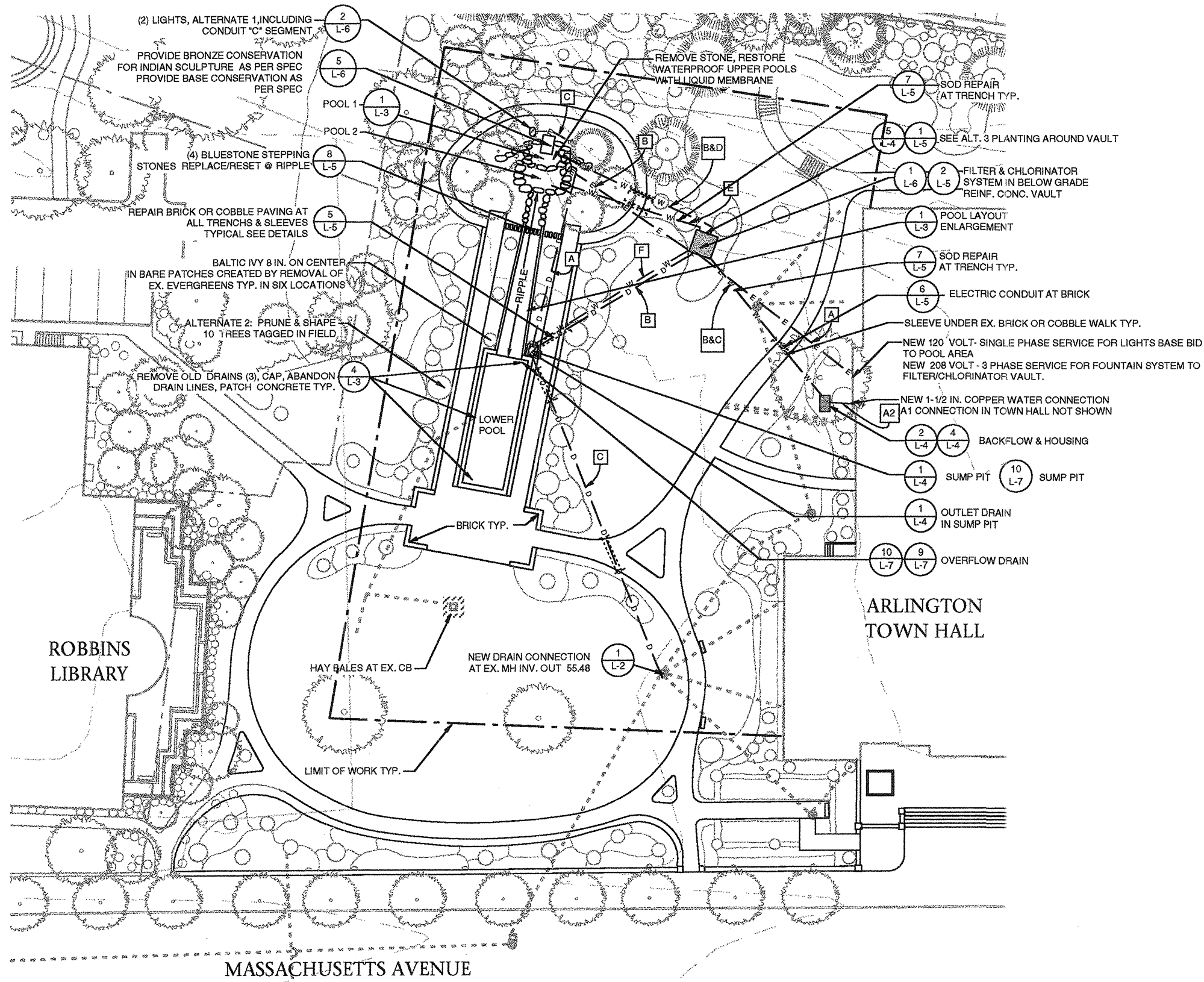
LEGEND:

- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- LIMIT OF WORK
- DRAINAGE STRUCTURES FROM ARLINGTON TOWN ENGINEERS PLAN & HOWE SURVEY ASSOC., INC.
- EXISTING CATCH BASIN
- EXISTING DRAIN STRUCTURE
- PROPOSED ELECTRICAL
- PROPOSED DRAIN
- PROPOSED WATER
- PROPOSED SLEEVE

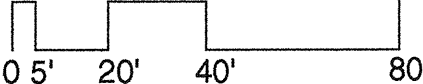
WATER LINES				
RUN*	PIPE	SIZE (DIA.)	LENGTH	NOTES
A-1	COPPER	1-1/2"	NA**	**CONNECT TO EX. @ T. HALL
A-2	PVC SCHED 80	1-1/2"	128LF	TO BACKFLOW
B	PVC SCHED 80	1-1/2"	128LF	WATER MAKEUP TO FILL
C	PVC SCHED 80	1-1/2"	165 LF	TO FILTER/CHLORINATOR
D	PVC SCHED 80	1-1/2"	163LF	TO UPPER POOL #1
E	PVC SCHED 80	2-1/2"	52 LF	TO MIDDLE POOL #2
F-1	PVC SCHED 80	2"	65 LF	TO STRAINER
F-2	PVC SCHED 80	4"	65 LF	TO FILTER/CHLORINATOR
*LETTERS CORRESPOND TO PLAN L-2, NOT FOUNTAIN DIAGRAM				
DRAIN				
RUN	PIPE	SIZE	LENGTH	INVERTS
A1	PVC SCHED 40	4"	15LF	IN/OUT
A2	PVC SCHED 40	4"	163 LF	FROM POOL #1
B	PVC SCHED 40	4"	168 LF	POOL #2-SUMP
C	PVC SCHED 40	6"	116 LF	VAULT TO SUMP
SUMP TO MH				
ELECTRICAL				
RUN	CONDUIT	SIZE	LENGTH	NOTES
A1-120V-SINGLE PH	PVC SCHED 80	2"	84LF	BASE BID
A2-208V-3PH	PVC SCHED 80	2"	84LF	BASE BID
B-120V	PVC SCHED 80	2"	70LF	BASE BID
C-120V	PVC SCHED 80	2"	115LF	ALT. 1
CONTRACTOR SHOULD VERIFY ALL QUANTITIES, MATERIALS AND CONNECTIONS.				



1 L-2 DRAIN CONNECTION TO EXISTING STRUCTURE
SCALE: N.T.S.



GENERAL LAYOUT PLAN

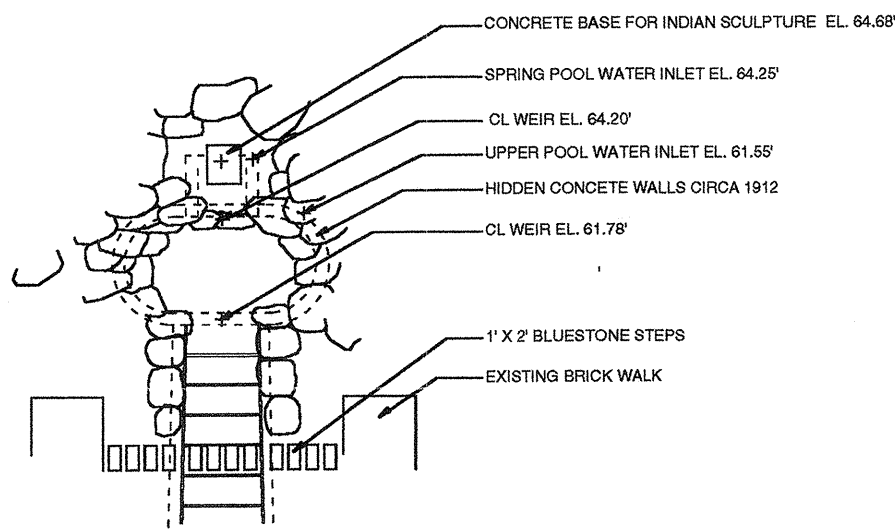


WINFIELD ROBBINS MEMORIAL GARDENS
RESTORATION PHASE 1-A

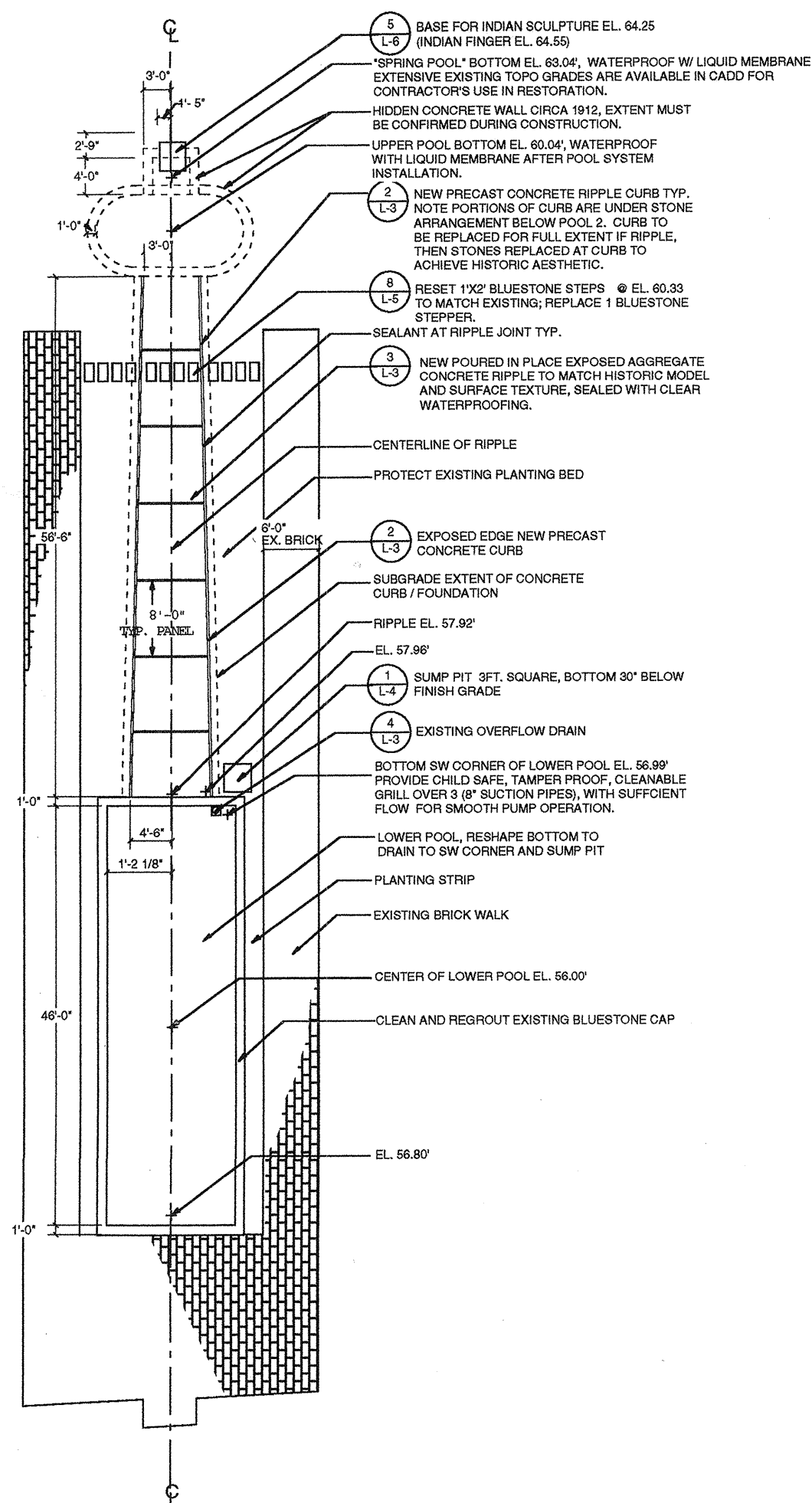
LANDSCAPE ARCHITECT:
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REVISIONS: TITLE: LAYOUT / UTILITIES

DRAWN BY: PL TH
CHECKED BY: PL DATE: 4/22/98

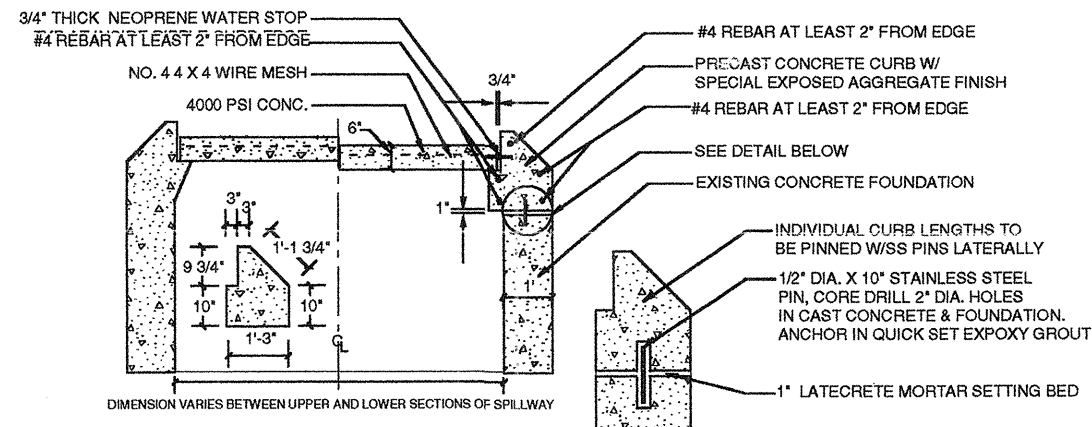


STONE RESTORATION AT UPPER POOL (POOL 1) AND "SPRING POOL" (POOL 2)



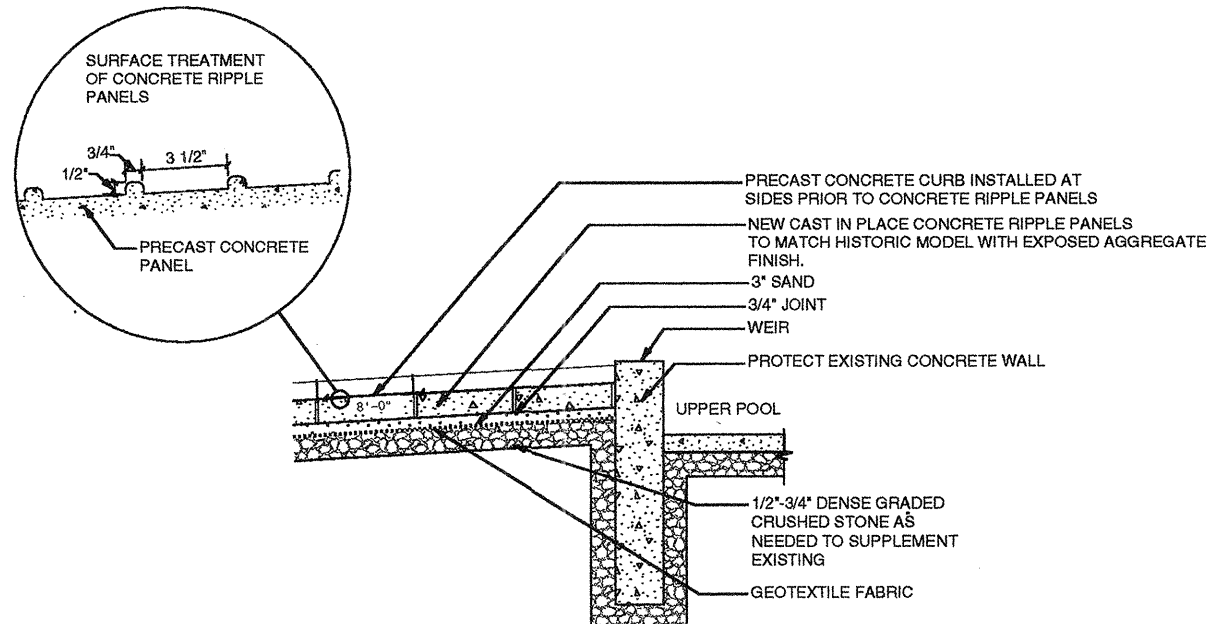
POOL LAYOUT

SCALE: 1/8" = 1'-0"



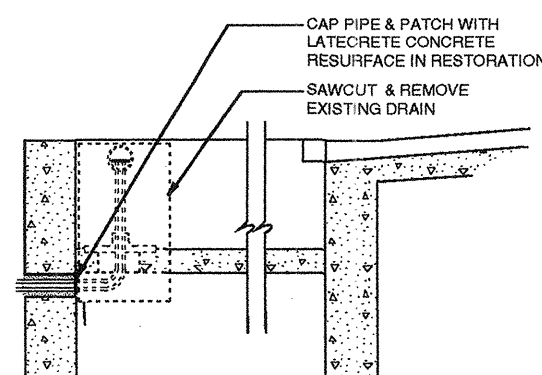
2 RIPPLE CURB REPLACEMENT

SCALE 1/2" = 1'-0"



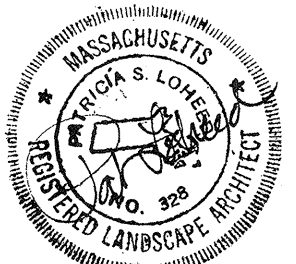
3 CONCRETE RIPPLE AT UPPER POOL

SCALE: 1/2" = 1'



4 EXISTING OVERFLOW DRAIN

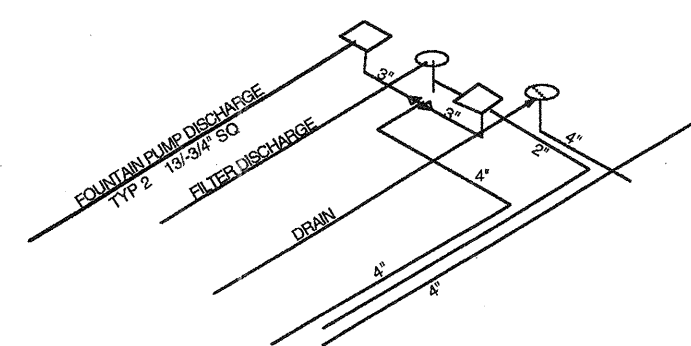
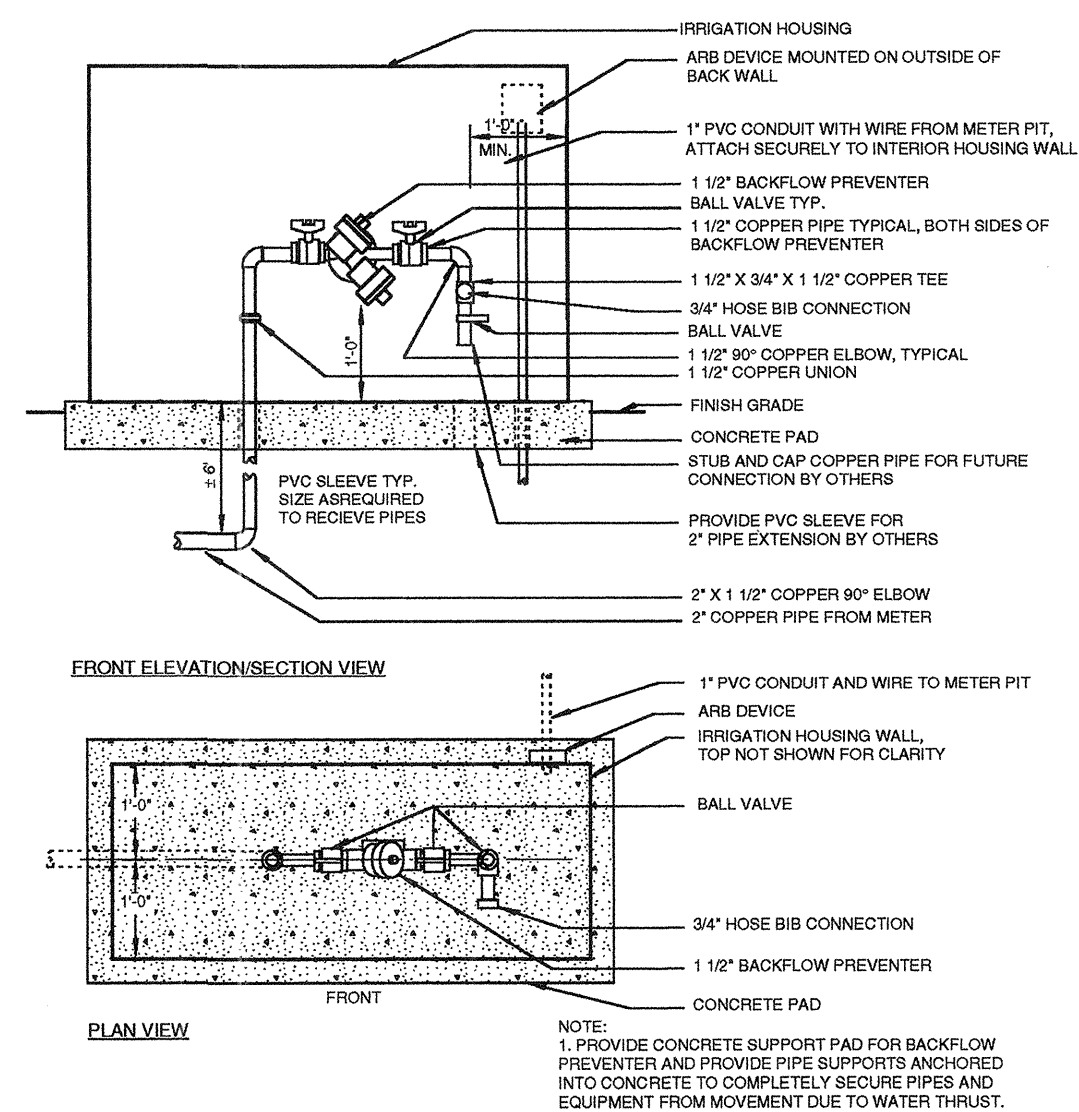
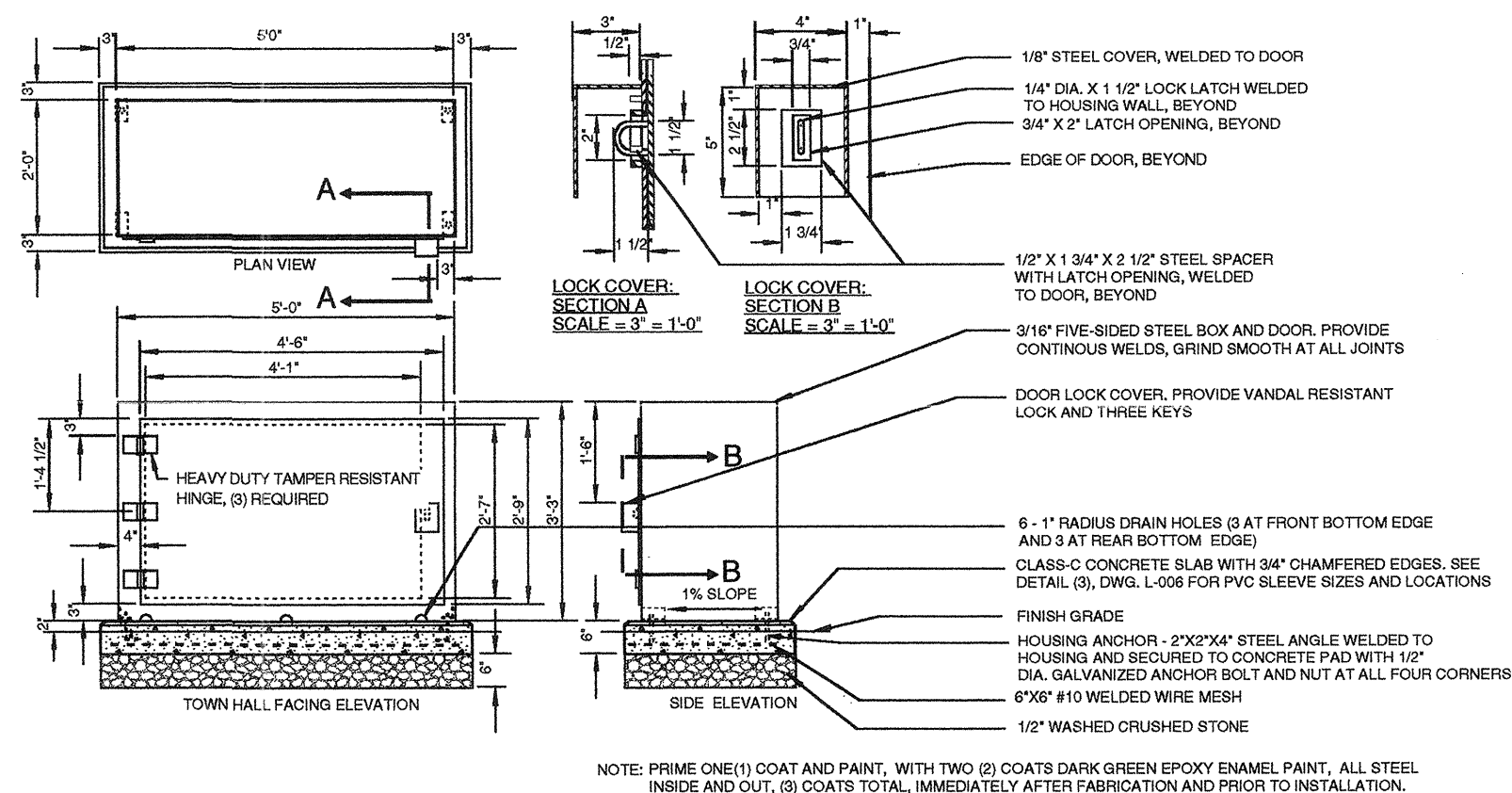
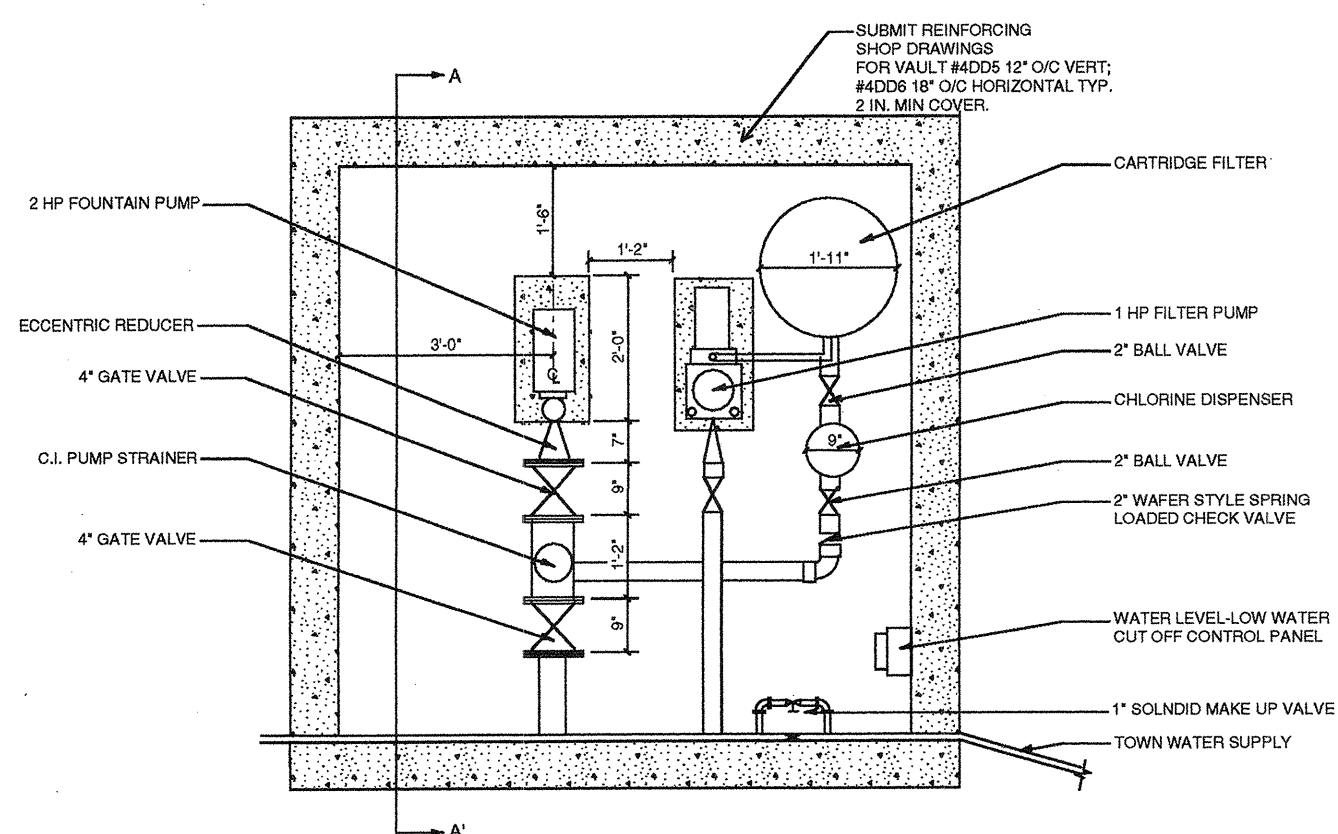
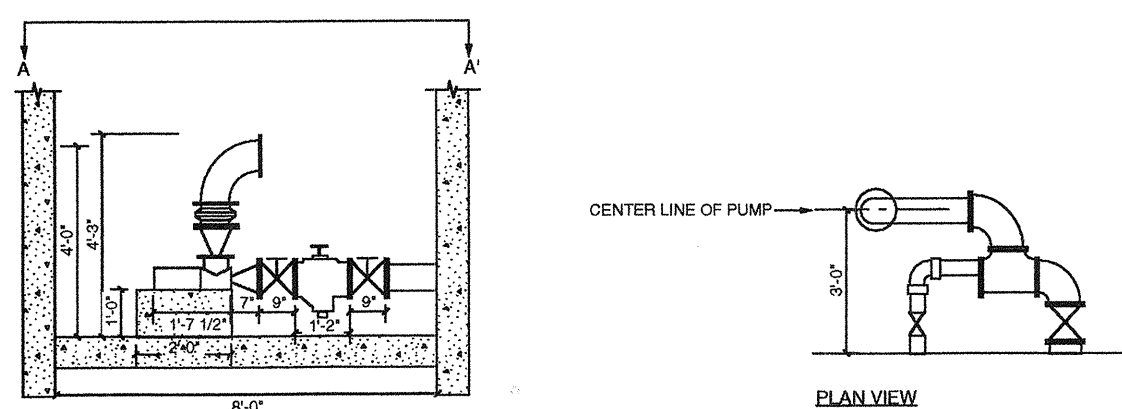
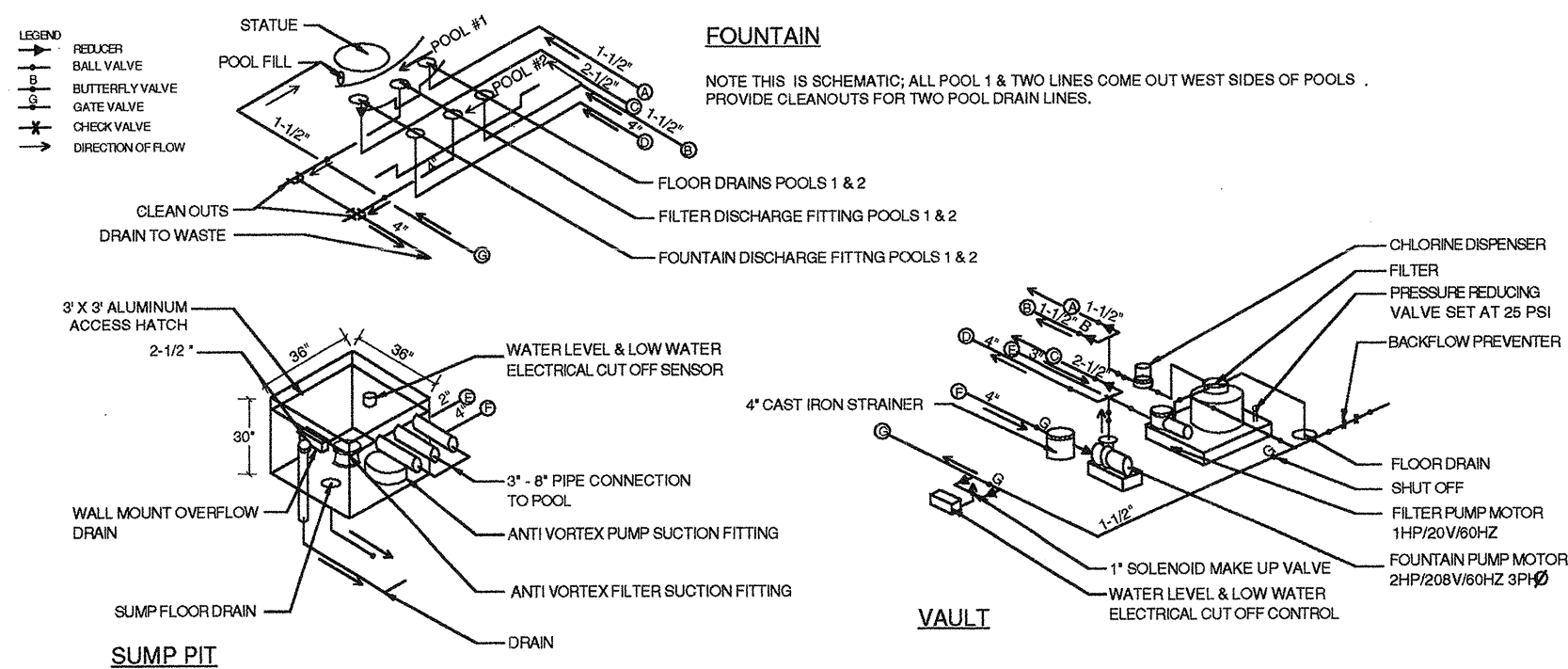
SCALE: 1/2" = 1'

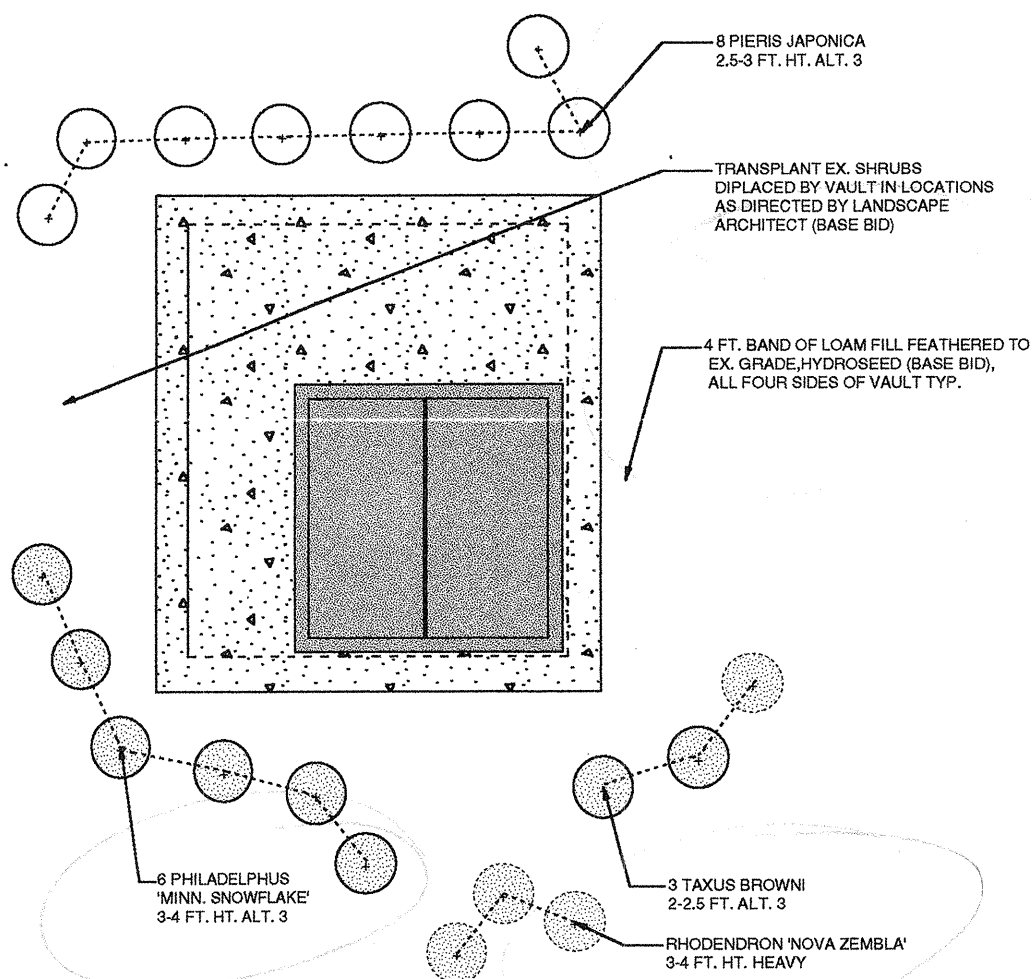


WINFIELD ROBBINS MEMORIAL GARDENS
RESTORATION PHASE 1-A

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SOMERVILLE, MA 02144
617-623-4366 • FAX 617-623-4362

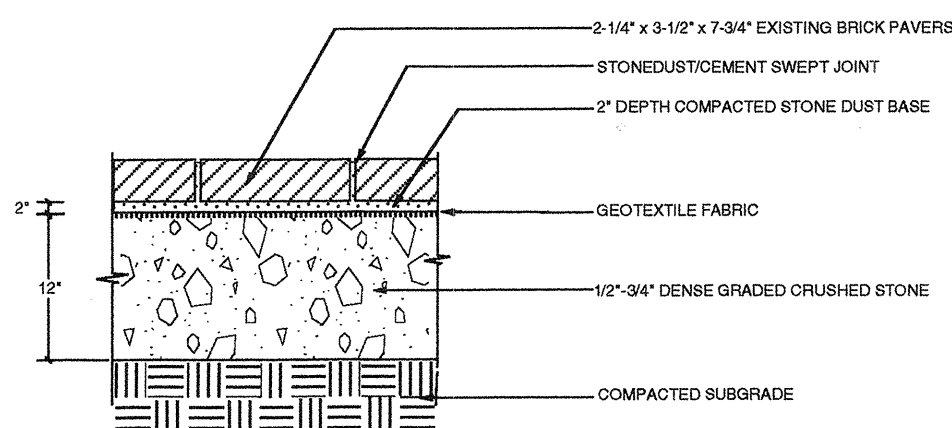
REVISIONS:	TITLE:
	POOL LAYOUT/ DETAILS
DRAWN BY: TH CHECK BY: PL	DATE: 4/22/98
	L-3





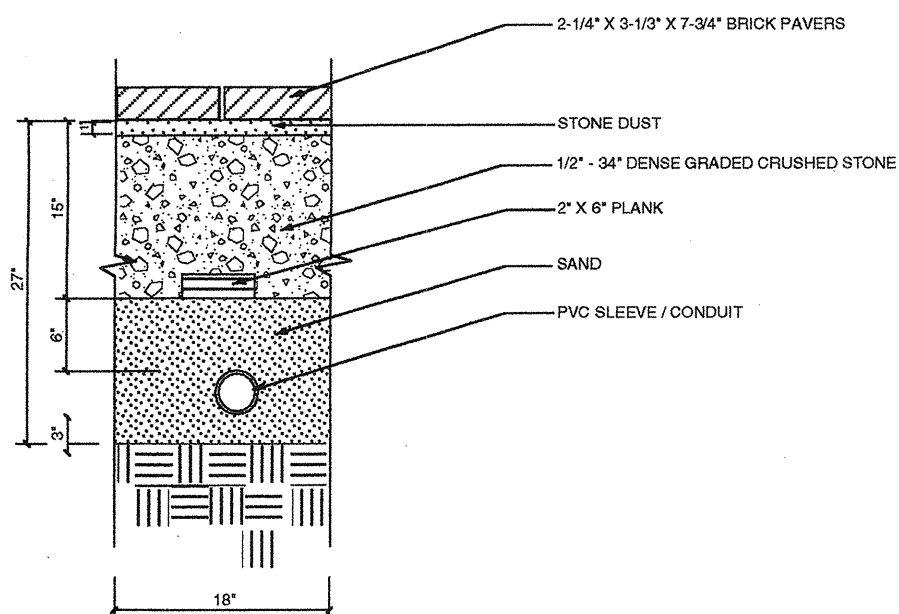
PLAN - BUFFER PLANTING AT FILTER/CHLORINATOR VAULT ALT. 3

NTS



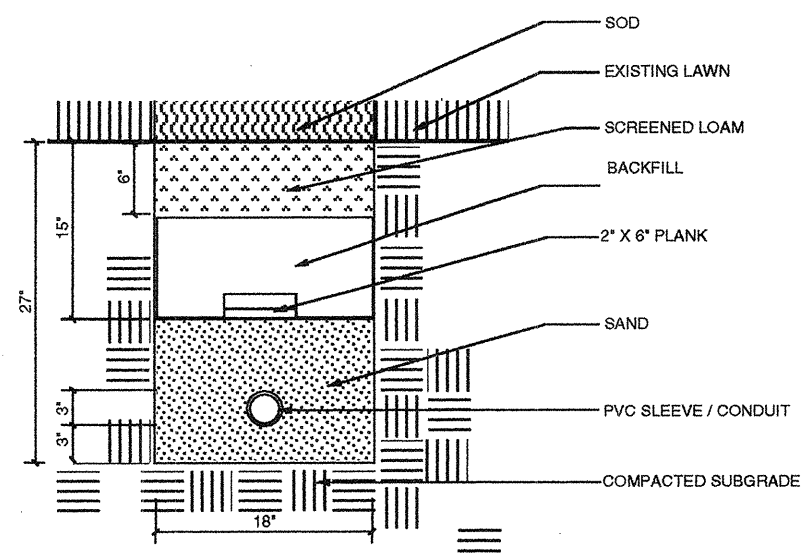
RESET BRICK PAVERS

SCALE: 1-1/2" = 1'



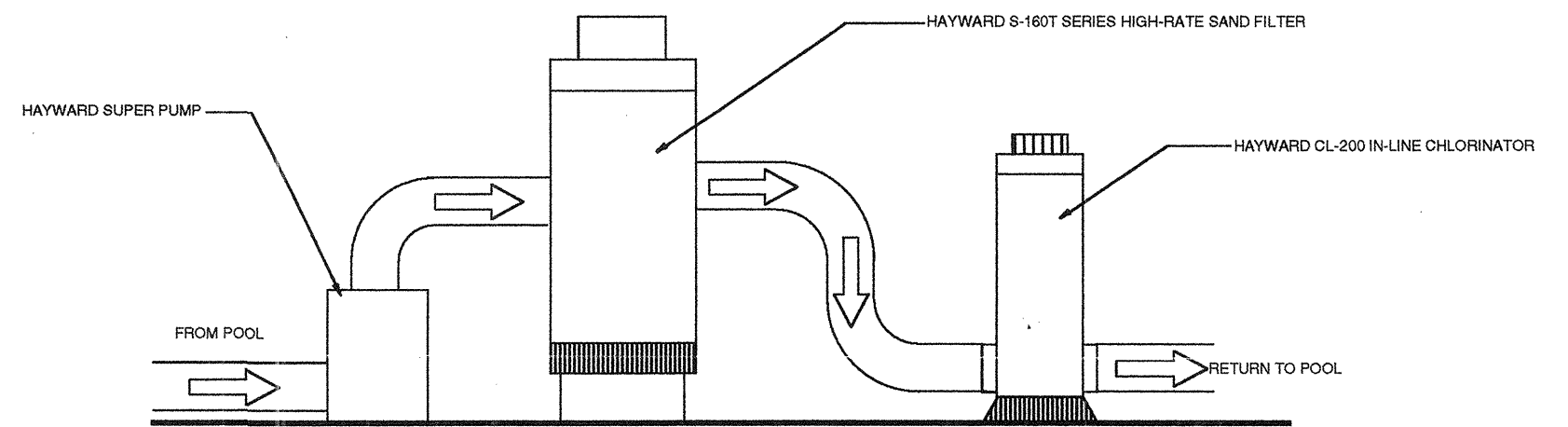
ELECTRIC CONDUIT BENEATH BRICK

SCALE: 1-1/2" = 1'



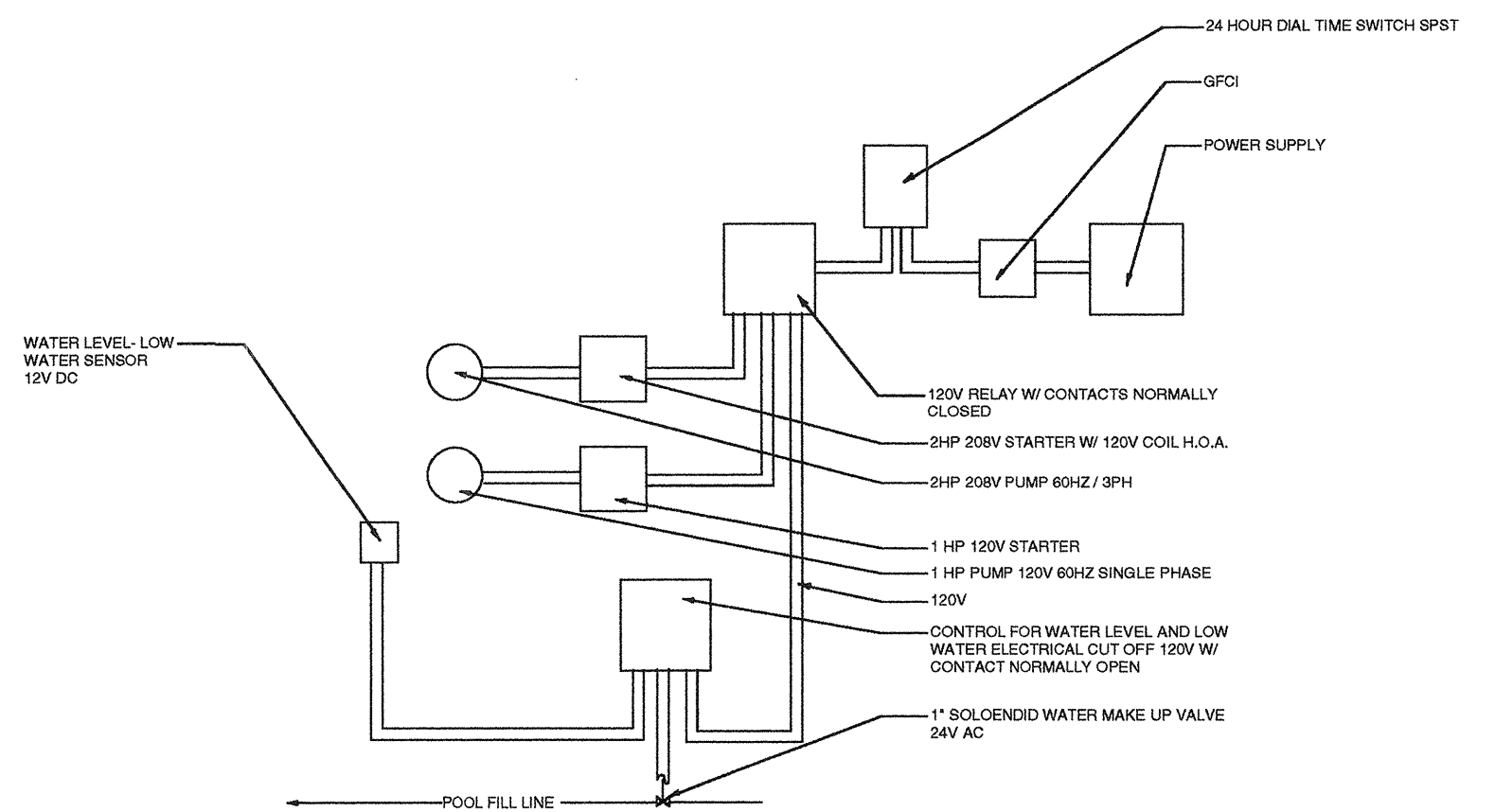
SOD AT TRENCH & ELECTRIC CONDUIT

SCALE: 1-1/2" = 1'



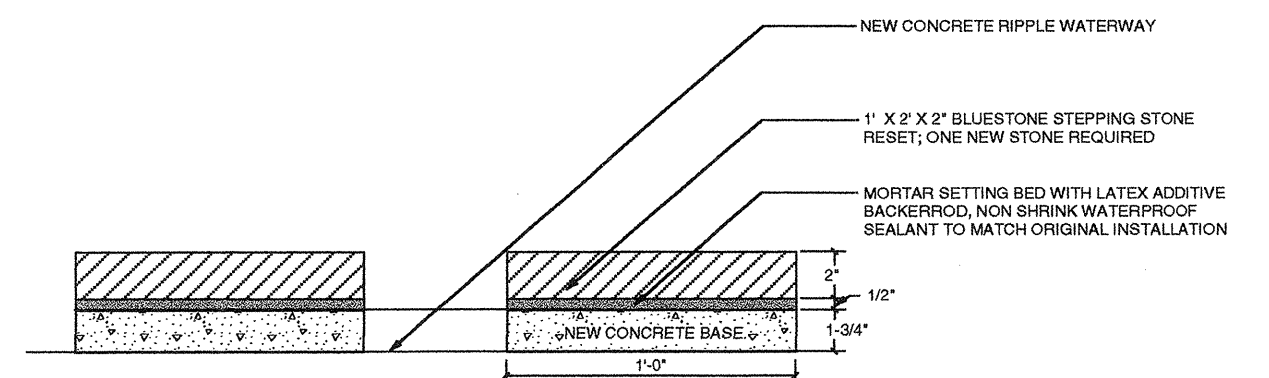
IN-LINE CHLORINATOR INSTALLATION

SCALE: N.T.S.



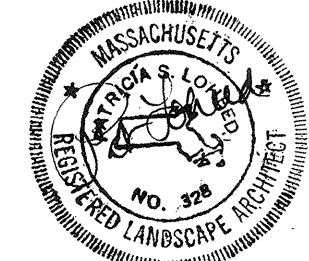
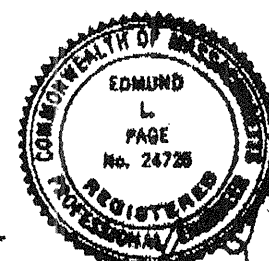
ELECTRICAL SCHEMATIC

SCALE: N.T.S.



RAISED BLUESTONE STEPPERS

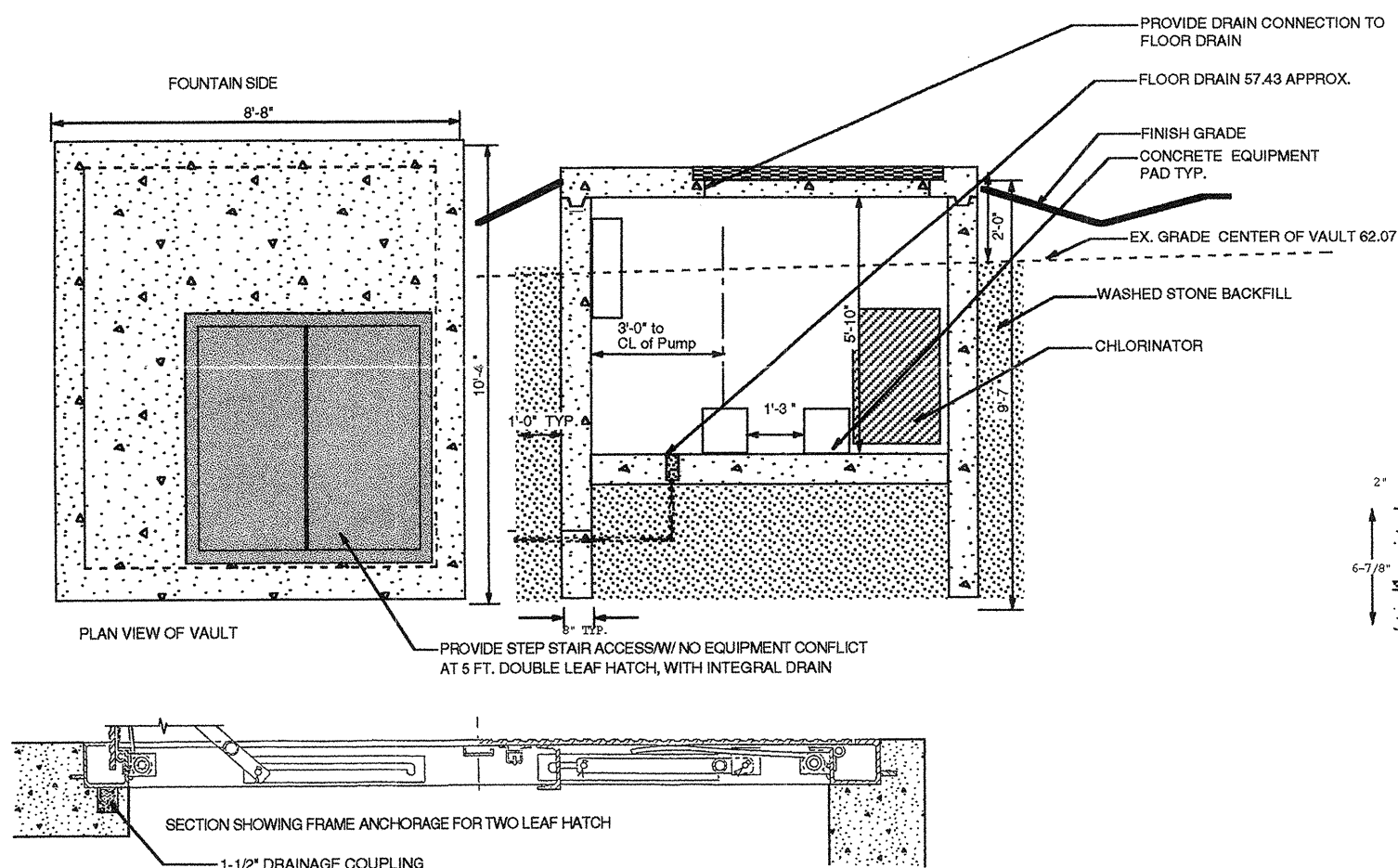
SCALE: 3" = 1'



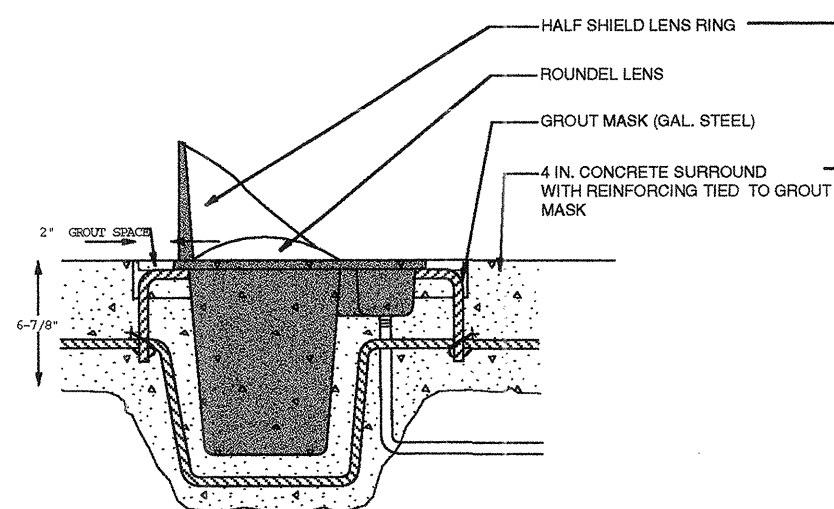
WINFIELD ROBBINS MEMORIAL GARDENS
RESTORATION PHASE 1-A

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SOMERVILLE, MA 02144
617-623-4366 • FAX 617-623-4362

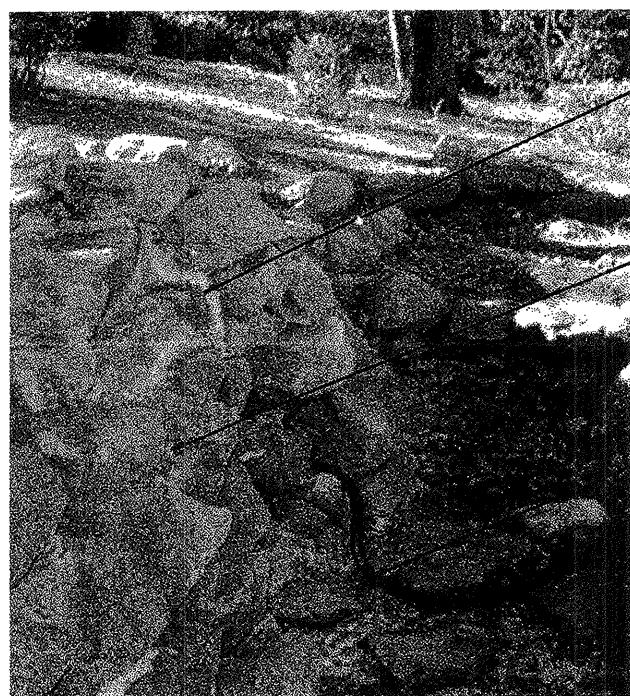
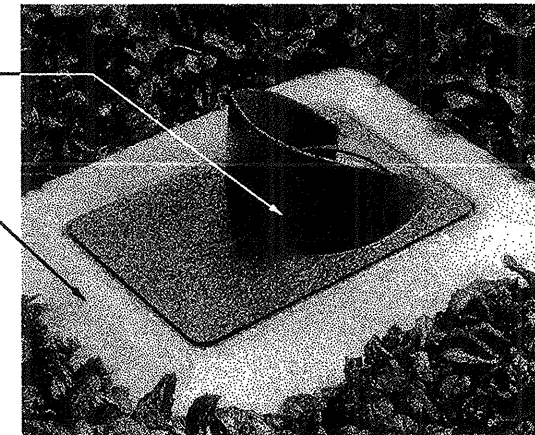
REVISIONS:	TITLE:
	FOUNTAIN DETAILS
DRAWN BY: TH CHECK BY: PL	DATE: 4/22/98 L-5



1
L-6
FOUNTAIN FLITER / CHLORINATOR VAULT
SCALE: N.T.S.



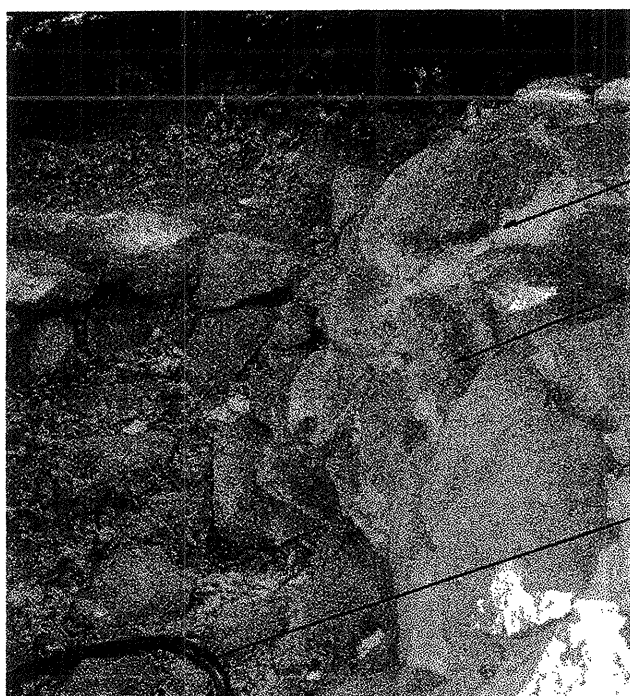
2
L-6
DIRECT BURIAL LIGHT SECTION - ALTERNATE 2
SCALE: N.T.S.



EXISTING FOUNTAIN BASE; CLEAN, REMOUNT VERTICAL STONES AS IN ORIGINAL OLMSTED INSTALLATION

TYPICAL AREAS OF RESTORATION FOR BOTH POOL 1 AND POOL 2 (AREAS OF INAPPROPRIATE MORTAR COLOR OR INSTALLATION TECHNIQUE) REMOVE STONE, NUMBER STOCKPILE, CLEAN, RESET ACCORDING TO PLAN APPROVED BY LANDSCAPE ARCHITECT & PRESERVATION CONSULTANT

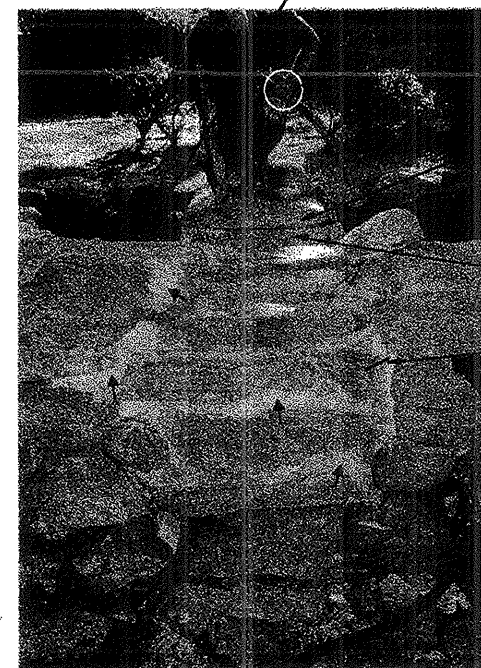
REMOVE EXISTING FOUNTAIN SYSTEM EQUIPMENT AND DISPOSE OF



EXISTING FOUNTAIN BASE; CLEAN, REMOUNT VERTICAL STONES AS IN ORIGINAL OLMSTED INSTALLATION

TYPICAL AREAS OF RESTORATION FOR BOTH POOL 1 AND POOL 2 (AREAS OF INAPPROPRIATE MORTAR COLOR OR INSTALLATION TECHNIQUE) REMOVE STONE, NUMBER STOCKPILE, CLEAN, RESET ACCORDING TO PLAN APPROVED BY LANDSCAPE ARCHITECT & PRESERVATION CONSULTANT

REMOVE EXISTING FOUNTAIN SYSTEM EQUIPMENT AND DISPOSE OF



REMOVE STONE FACING, CLEAN AND WATERPROOF ENTIRE BASIN OF POOL 1 AND POOL 2 WITH LIQUID MEMBRANE WATERPROOFING, NOTE CURING TIME FOR CONCRETE PATCHING PRIOR TO WATERPROOFING AS NOTED IN MANUF. INSTRUCTIONS.

EXISTING BRONZE BASE

3/4" LATECRETE MORTAR, BACKER ROD AND NON SHRINK SEALANT IN APPROVED COLOR

EXISTING CONCRETE SUB-BASE, CLEAN, REMOUNT VERTICAL STONES AS IN ORIGINAL OLMSTED INSTALLATION

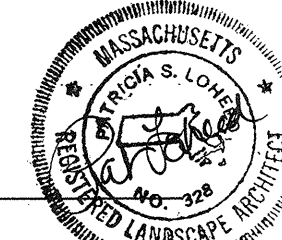
TYPICAL AREAS OF RESTORATION FOR BOTH POOL 1 AND POOL 2 (AREAS OF INAPPROPRIATE MORTAR COLOR OR INSTALLATION TECHNIQUE) REMOVE STONE, NUMBER STOCKPILE, CLEAN, RESET ACCORDING TO PLAN APPROVED BY LANDSCAPE ARCHITECT & PRESERVATION CONSULTANT

REMOVE EXISTING FOUNTAIN SYSTEM EQUIPMENT AND DISPOSE OF

INDIAN HAND REPAIR



4
L-6
STONE / INDIAN SCULPTURE RESTORATION
SCALE: N.T.S.



**WINFIELD ROBBINS MEMORIAL GARDENS
RESTORATION PHASE 1-A**

LANDSCAPE ARCHITECT:

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1310 BROADWAY, SUITE 103
SOMERVILLE, MA 02144
617-623-4366 • FAX 617-623-4362

REVISIONS:

TITLE:

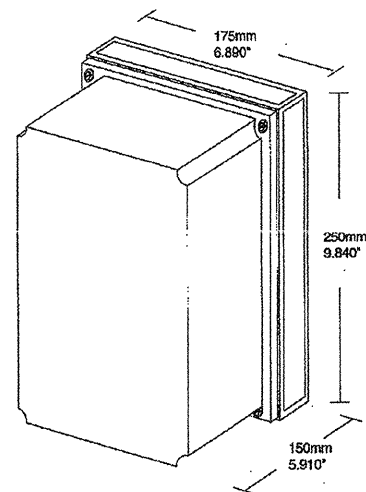
DETAILS

DRAWN BY: TH
CHECK BY: PL

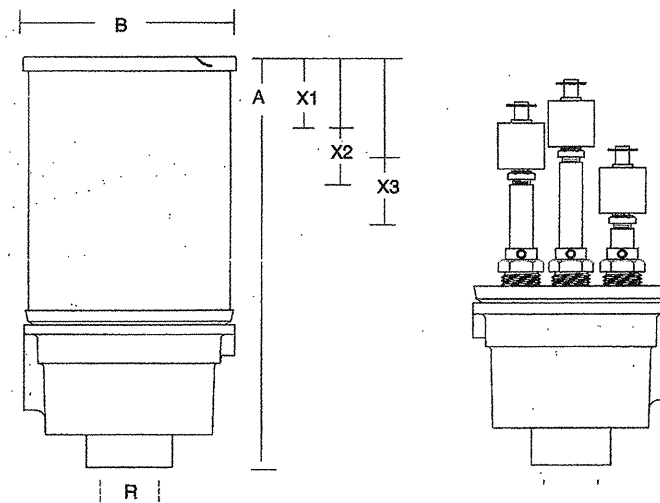
DATE:

4/22/98

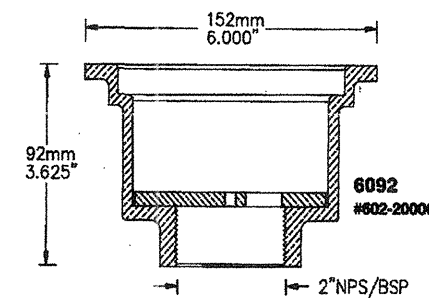
L-6



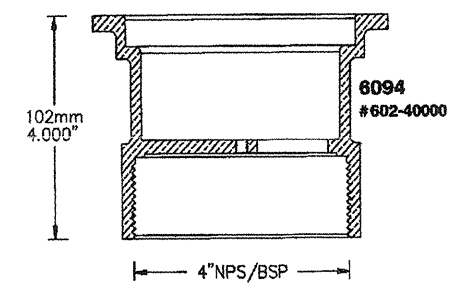
1 CONTROL PANEL WITH TRANSFORMER
SCALE: NTS



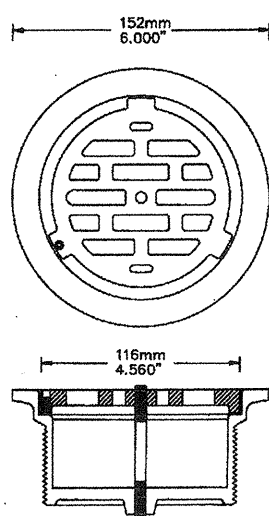
2 CONDUIT MOUNTED SENSOR
SCALE: NTS



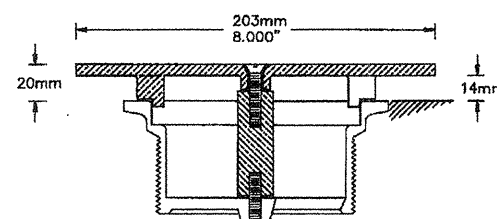
3 FILTER RETURN BASE
SCALE: NTS



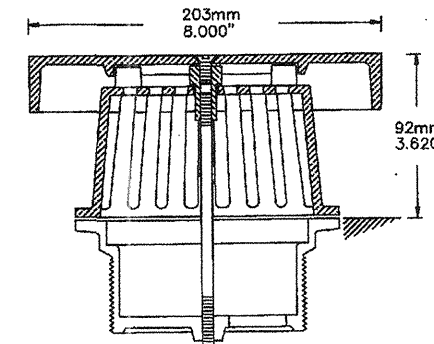
4 4" DRAIN BASE
SCALE: NTS



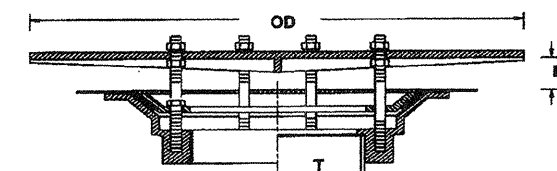
5 4" SURFACE DRAIN
SCALE: NTS



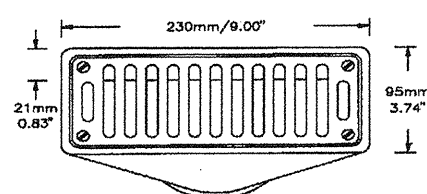
6 DISCHARGE FITTING
SCALE: NTS



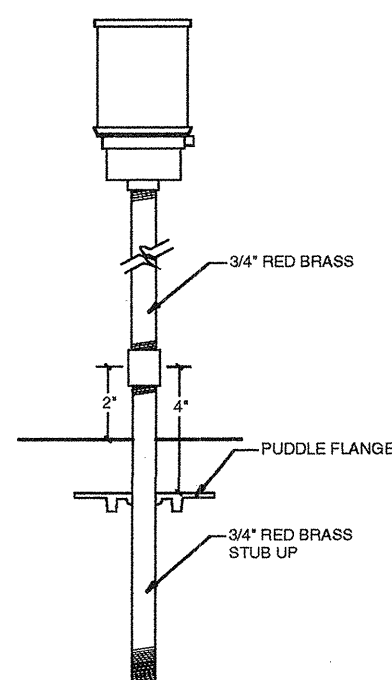
7 ANTI-VORTEX SUCTION FITTING/FILTER
SCALE: NTS



8 VALVED ANTI-VORTEX SUCTION FITTING
SCALE: NTS

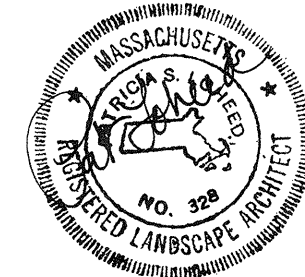


9 ADJUSTABLE WALL OVERFLOW
SCALE: NTS



10 SENSOR
SCALE: NTS

POOL SYSTEM SCHEDULE KEY	COMPONENT	MANUFACTURER/MODEL#	SPECIFICATION NUMBER
1	CONTROL PANEL WITH TRANSFORMER	PEM-L-104-100-42-EV-103	2.07
2	CONDUIT MOUNTED SENSOR	PEM-L-104-100-42-EV-103	2.07
3	FILTER RETURN BASE	PEM-6092-4-6216	2.10
4	4" DRAIN BASE	PEM-6094-4-6217	2.08 & 2.09
5	4" SURFACE DRAIN	PEM-6212	2.12
6	DISCHARGE FITTING	PEM-6092-4-6215	2.13
7	ANTI-VORTEX SUCTION FITTING/FILTER	PEM-6092-4-6216	2.09
8	VALVED ANTI-VORTEX SUCTION FITTING	PEM-6443-0072	2.14
9	ADJUSTABLE WALL OVERFLOW	6317-60-1	2.11
10	SENSOR	PEM-L-104-100-42-EV-103	2.07
	FOUNTAIN PUMP	ITT BELL & GOSSET 4AC	2.03
	PUMP STRAINER	HAYWORD MODEL 30	2.04
	FILTER	HAYWORD C-3000	2.05
	CHLORINE DISPENSER	HAYWORD CL-200-2S	2.06



WINFIELD ROBBINS MEMORIAL GARDENS
RESTORATION PHASE 1-A

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REVISIONS: TITLE: FOUNTAIN SYSTEM DETAILS
DRAWN BY: TH CHECK BY: PL DATE: 4/22/98 L-7